

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0013	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Maintenance Area 0013	A	41.03						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.08			
Trim / Thin Trees	0.29		0.29	0.71%				
Encroachments	0.06		0.06	0.15%	14.35			
Animal Control	0.01		0.01	0.02%				
Erosion / Bank Caving	0.02		0.02	0.05%				
Crown Surface / Depressions / Rutting	1.64		1.64	4.00%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.01		0.01	0.02%				
DWR UCIP Field Study					0.49	0.15		
<i>LMA Totals:</i>	2.03	0.00	2.03	4.95%	14.92	0.15	0.00	0.00
Unit No. 01 Cherokee Canal RB	Overall Unit Rating	Total Unit Miles						
MA0013	A	18.19						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.07			
Trim / Thin Trees	0.02		0.02	0.11%				
Encroachments	0.01		0.01	0.06%	4.89			
Crown Surface / Depressions / Rutting	0.90		0.90	4.95%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.01		0.01	0.06%				
DWR UCIP Field Study					0.17	0.09		
<i>Unit Totals:</i>	0.94	0.00	0.94	5.17%	5.13	0.09	0.00	0.00
Unit No. 02 Cherokee Canal LB	Overall Unit Rating	Total Unit Miles						
MA0013	A	22.84						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.01			
Trim / Thin Trees	0.27		0.27	1.18%				
Encroachments	0.05		0.05	0.22%	9.46			
Animal Control	0.01		0.01	0.04%				
Erosion / Bank Caving	0.02		0.02	0.09%				
Crown Surface / Depressions / Rutting	0.74		0.74	3.24%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.32	0.06		
<i>Unit Totals:</i>	1.09	0.00	1.09	4.77%	9.79	0.06	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 01 Cherokee Canal			Right	18.19
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/06/2015 - 05/06/2015		11/06/2015 - 11/06/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Shawn Freitag Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	1	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				o	
					o	
DWR ID	DWR_MA0013_01_s_2013_1					
Action/Comments						
Inspector Comments: The LMA has the O&M manuals.						

No Photos

LM Start		Rating **	A	Issue No.	8	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				o	
					o	
DWR ID	DWR_MA0013_01_s_2013_8					
Action/Comments						
Inspector Comments: The LMA has adequate flood fight supplies and equipment.						

No Photos

LM Start		Rating **	A	Issue No.	16	
LM End		Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_MA0013_01_s_2013_16					
Action/Comments						
Inspector Comments: The LMA completed flood fight training in 2014.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.45	Rating **	M	Issue No.	43
LM End	0.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.591237 °	39.591237 °
				-121.702015 °	-121.702015 °
DWR ID	DWR_MA0013_01_f_2015_43				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside slope.					

Photo 1 of 1 : FA_2015_MA0013_300_43_20151109_00014.jpg



View of the prunings along the landside slope.

LM Start	0.57	Rating **	C	Issue No.	19
LM End	0.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.590173 °	39.590173 °
				-121.700617 °	-121.700617 °
DWR ID	DWR_MA0013_01_s_2013_19				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: Sutter Yard repaired the vehicle erosion along the waterside slope.					

No Photos

LM Start	0.63	Rating **	M	Issue No.	14
LM End	1.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.589272 °	39.581472 °
				-121.700599 °	-121.700518 °
DWR ID	DWR_MA0013_01_s_2012_14				
Action/Comments					
Ditch					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.73	Rating **	M	Issue No.	12
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.587905 °	39.587505 °
				-121.700822 °	-121.700880 °
DWR ID	DWR_MA0013_01_s_2012_12				
Action/Comments					
Equipment					
Inspector Comments: Remove the equipment from the landside toe.					

Photo 1 of 1 : FA_2015_MA0013_300_12_20150910_00006.jpg



View of the equipment along the landside toe of the levee.

LM Start	0.87	Rating **	M	Issue No.	44
LM End	0.87	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.585857 °	39.585857 °
				-121.700540 °	-121.700540 °
DWR ID	DWR_MA0013_01_s_2015_44				
Action/Comments					
Prunings					
Inspector Comments: Remove the prunings from the landside slope.					

Photo 1 of 1 : FA_2015_MA0013_300_44_20150910_00011.jpg



View of the prunings along the landside slope.

LM Start	0.94	Rating **	M	Issue No.	20
LM End	0.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.584885 °	39.584885 °
				-121.700487 °	-121.700487 °
DWR ID	DWR_MA0013_01_s_2013_20				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2015_MA0013_300_20_20150910_00010.jpg



View of the prunings along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.66	Rating **	M	Issue No.	48
LM End	1.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575816 °	39.575816 °
				-121.702900 °	-121.702900 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46352					
DS_ID:16345					
EP_NO: N/A					
FS_HLM: 1.697					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/14/2015 4-inch pipe still present and blocking the screw gate. Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing. 7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete headwall on the landward side. 36-inch concrete standpipe in the channel with 2 piles to deflect debris (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.69).					
FS Date: 07/23/2015					

Photo 1 of 3 : UCIP_FA_2015_5397.jpg



Overview of levee at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.66	Rating **	M	Issue No.	48 (cont)
LM End	1.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575816 °	39.575816 °
				-121.702900 °	-121.702900 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46352

DS_ID:16345

EP_NO: N/A

FS_HLM: 1.697

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 7/14/2015 4-inch pipe still present and blocking the screw gate. Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing. 7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete headwall on the landward side. 36-inch concrete standpipe in the channel with 2 piles to deflect debris (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.69).

FS Date: 07/23/2015

Photo 2 of 3 : UCIP_FA_2015_5398.jpg



Positive closure device on WS slope, panel lid fell in.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.66	Rating **	M	Issue No.	48 (cont)
LM End	1.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.575816 °	39.575816 °
				-121.702900 °	-121.702900 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46352 DS_ID:16345 EP_NO: N/A FS_HLM: 1.697 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/14/2015 4-inch pipe still present and blocking the screw gate. Crossing has 4-inch pipe inside blocking positive closure/notify landowner to remove prior to flood season. LS crossing is blocked about 50% by sediment build up. Burrow activity present on LS near crossing. 7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 7.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete headwall on the landward side. 36-inch concrete standpipe in the channel with 2 piles to deflect debris (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.69). FS Date: 07/23/2015					

Photo 3 of 3 : UCIP_FA_2015_5399.jpg



WS view looking upstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.31	Rating **	M	Issue No.	49
LM End	2.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46351
 DS_ID:16346
 EP_NO: N/A
 FS_HLM: 2.357
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/14/2015 Still cannot find an inlet or outlet. Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible. 7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe continues across channel. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.35).
 FS Date: 07/23/2015

Photo 1 of 3 : UCIP_FA_2015_5400.jpg



Corrugated metal riser on WS slope. Lid panel blocking gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.31	Rating **	M	Issue No.	49 (cont)
LM End	2.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46351					
DS_ID:16346					
EP_NO: N/A					
FS_HLM: 2.357					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/14/2015 Still cannot find an inlet or outelt.Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible.7/15/2013 Same as last inspection.12/2/2013 Same as last inspection.5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe continues across channel. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.35).					
FS Date: 07/23/2015					

Photo 2 of 3 : UCIP_FA_2015_5401.jpg



Overview of crossing looking DS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.31	Rating **	M	Issue No.	49 (cont)
LM End	2.31	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566433 °	39.566433 °
				-121.703750 °	-121.703750 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46351 DS_ID:16346 EP_NO: N/A FS_HLM: 2.357 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/14/2015 Still cannot find an inlet or outelt.Non functional crossing due to LS headwall buried. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0119 for no inlet or outlet visible.7/15/2013 Same as last inspection.12/2/2013 Same as last inspection.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee 7.8 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe continues across channel. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.35). FS Date: 07/23/2015					

Photo 3 of 3 : UCIP_FA_2015_5402.jpg



Corrugated riser located on WS slope.

LM Start	3.05	Rating **	M	Issue No.	50
LM End	3.05	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.556276 °	39.556276 °
				-121.706510 °	-121.706510 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46349 DS_ID:16348 EP_NO: N/A FS_HLM: 3.07 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 7/14/2015 Unable to locate. Crossing not visible during the Spring 2012 Inspection. Attempt to find crossing during next inspection when slopes are cleared of vegetation. 7/15/2013 Same as last inspection. Unable to locate. 12/2/2013 Unable to locate. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch drainpipe through the levee, flap gate on waterward end. Concrete headwall on both ends. FS Date: 07/23/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.74	Rating **	U	Issue No.	51
LM End	3.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID					

Photo 1 of 4 : UCIP_FA_2015_5533.jpg



WS flap gate blocked by debris.

Action/Comments					
Inspector Comments: FS_ID:46344					
DS_ID:16365					
EP_NO: N/A					
FS_HLM: 3.803					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional. LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.82).					
FS Date: 07/23/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.74	Rating **	U	Issue No.	51 (cont)
LM End	3.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID					

Photo 2 of 4 : UCIP_FA_2015_5534.jpg



Action/Comments					
Inspector Comments: FS_ID:46344 DS_ID:16365 EP_NO: N/A FS_HLM: 3.803 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional. LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.82). FS Date: 07/23/2015					

LS slide gate covered with silt. Slide gate is bent.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.74	Rating **	U	Issue No.	51 (cont)
LM End	3.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46344
 DS_ID:16365
 EP_NO: N/A
 FS_HLM: 3.803
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional. LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.82).
 FS Date: 07/23/2015

Photo 3 of 4 : UCIP_FA_2015_5535.jpg



Overview of levee crown at crossing looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.74	Rating **	U	Issue No.	51 (cont)
LM End	3.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.546317 °	39.546317 °
				-121.707510 °	-121.707510 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46344 DS_ID:16365 EP_NO: N/A FS_HLM: 3.803 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/14/2015 LS screw gate is still damaged and buried. Crossing is non-functional.LS slide gate covered with silt. Slide gate is bent. Crossing appears not be in use. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes.7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate is still bent and silted over.12/2/2013 Same as last inspection.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.82). FS Date: 07/23/2015					

Photo 4 of 4 : UCIP_FA_2015_5536.jpg



View of LS toe.

LM Start	4.06	Rating **	M	Issue No.	18
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.541660 °	39.540651 °
				-121.707408 °	-121.707404 °
DWR ID	DWR_MA0013_01_s_2013_18				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA_2015_MA0013_300_18_20150910_00008.jpg



View of the redwood trees along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	4.45	Rating **	M	Issue No.	47
LM End	5.35	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.536017 °	39.523020 °
				-121.707705 °	-121.707577 °
DWR ID	DWR_MA0013_01_s_2015_47				
Action/Comments					
Repair depressions or ruts in the crown or slope.					
Inspector Comments: Repair the ruts in the crown roadway.					

Photo 1 of 1 : FA_2015_MA0013_300_47_20150910_00013.jpg



View of the ruts in the crown roadway.

LM Start	5.38	Rating **	M	Issue No.	52
LM End	5.38	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522566 °	39.522566 °
				-121.707560 °	-121.707560 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46271					
DS_ID:16357					
EP_NO: N/A					
FS_HLM: 5.466					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/13/2015 WS flapgate is blocked from opening by sediment. Needs to be dug out.Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes.7/15/2013 Slopes have been cleared of vegetation and are in good condition.12/2/2013 Same as last inspection.5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls an both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.48).					
FS Date: 07/17/2015					

Photo 1 of 3 : UCIP_FA_2015_5566.jpg



Overview of levee crown at crossing looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.38	Rating **	M	Issue No.	52 (cont)
LM End	5.38	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522566 °	39.522566 °
				-121.707560 °	-121.707560 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46271
DS_ID:16357
EP_NO: N/A
FS_HLM: 5.466
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/13/2015 WS flapgate is blocked from opening by sediment. Needs to be dug out. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls an both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.48).
FS Date: 07/17/2015

LM Start	5.38	Rating **	M	Issue No.	52 (cont)
LM End	5.38	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_5567.jpg



View of WS slope and channel.

Photo 3 of 3 : UCIP_FA_2015_5568.jpg



View of WS flap gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.63	Rating **	U	Issue No.	53
LM End	5.63	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46276					
DS_ID:16359					
EP_NO: N/A					
FS_HLM: 5.723					
Repair Type: Urgent					
Crossing Status: Found					

LM Start	5.63	Rating **	U	Issue No.	53 (cont)
LM End	5.63	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP_FA_2015_5627.jpg



View of WS flap gate buried.

Photo 2 of 3 : UCIP_FA_2015_5628.jpg



Overview of levee crown at crossing looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.63	Rating **	U	Issue No.	53 (cont)
LM End	5.63	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.519212 °	39.519212 °
				-121.709030 °	-121.709030 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46276					
DS_ID:16359					
EP_NO: N/A					
FS_HLM: 5.723					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5629.jpg



View of WS slope and toe.

LM Start	5.87	Rating **	M	Issue No.	54
LM End	5.87	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.516059 °	39.516059 °
				-121.710810 °	-121.710810 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46277					
DS_ID:16360					
EP_NO: N/A					
FS_HLM: 5.964					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition. Burrow activity near crossing; burrow holes present on LS.7/15/2013 Same as last inspection.12/2/2013 Same as last inspection.5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 6.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.97).					
FS Date: 07/17/2015					

Photo 1 of 3 : UCIP_FA_2015_4388.jpg



Flap gate WS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.87	Rating **	M	Issue No.	54 (cont)
LM End	5.87	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.516059 °	39.516059 °
				-121.710810 °	-121.710810 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46277 DS_ID:16360 EP_NO: N/A FS_HLM: 5.964 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS screw gate was completely submerged but crossing appears to be in good condition. Burrow activity near crossing; burrow holes present on LS. 7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 6.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.97). FS Date: 07/17/2015					

LM Start	5.87	Rating **	M	Issue No.	54 (cont)
LM End	5.87	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_4389.jpg



Overview of levee crown at crossing looking downstream.

Photo 3 of 3 : UCIP_FA_2015_4390.jpg



View of WS slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.23	Rating **	U	Issue No.	55
LM End	6.23	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.511337 °	39.511337 °
				-121.713620 °	-121.713620 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46278					
DS_ID:16361					
EP_NO: N/A					
FS_HLM: 6.327					
Repair Type: Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_4391.jpg



View of WS flap gate.

Photo 2 of 3 : UCIP_FA_2015_4392.jpg



View of WS slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.23	Rating **	U	Issue No.	55 (cont)
LM End	6.23	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.511337 °	39.511337 °
				-121.713620 °	-121.713620 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46278					
DS_ID:16361					
EP_NO: N/A					
FS_HLM: 6.327					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5645.jpg



Overview of levee crown at crossing looking downstream.

LM Start	6.41	Rating **	M	Issue No.	3
LM End	6.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.508928 °	39.501438 °
				-121.714842 °	-121.719715 °
DWR ID	DWR_MA0013_01_s_2012_3				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_300_3_20150910_00002.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.45	Rating **	U	Issue No.	56
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46279

DS_ID:16362

EP_NO: 5200B

FS_HLM: 6.554

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 7/13/2015 Hole still present behind the LS flashboards. Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. 7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.

FIELD_STRUCT_DESC: 1 of 10 items under Board Order 5200, 5200A, and 5200B: 24-inch corrugated metal drainpipe through the levee, 7.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete head wall on both ends (Board Order 5200B-1965). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.56).

FS Date: 07/17/2015

Photo 1 of 3 : UCIP_FA_2015_5646.jpg



WS flap gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.45	Rating **	U	Issue No.	56 (cont)
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5647.jpg



View of WS slope and toe.

Action/Comments					
Inspector Comments: FS_ID:46279 DS_ID:16362 EP_NO: 5200B FS_HLM: 6.554 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Hole still present behind the LS flashboards. Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. 7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 10 items under Board Order 5200, 5200A, and 5200B: 24-inch corrugated metal drainpipe through the levee, 7.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete head wall on both ends (Board Order 5200B-1965). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.56). FS Date: 07/17/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.45	Rating **	U	Issue No.	56 (cont)
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508309 °	39.508309 °
				-121.715100 °	-121.715100 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46279 DS_ID:16362 EP_NO: 5200B FS_HLM: 6.554 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Hole still present behind the LS flashboards. Hole behind flashboards against slide gate on LS slope (Health and Safety Issue). Limited inspection on WS slope due to dense vegetation. Need photo of cleared slope on WS. 7/15/2013 WS slope has been cleared of vegetation and is in good condition. Hole is still present behind flash boards on LS. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 10 items under Board Order 5200, 5200A, and 5200B: 24-inch corrugated metal drainpipe through the levee, 7.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete head wall on both ends (Board Order 5200B-1965). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 6.56). FS Date: 07/17/2015					

Photo 3 of 3 : UCIP_FA_2015_5648.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.45	Rating **	M	Issue No.	57
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508298 °	39.508298 °
				-121.715100 °	-121.715100 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46280
DS_ID:16363
EP_NO: 5200B
FS_HLM: 6.555
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 7/13/2015 Same as last inspection. Clear wooden debris on upstream headwall. Upstream location latitude = 39.508298, longitude = -121.715103. Downstream location latitude = 39.50797, longitude = -121.71534; .7/15/2013 Same as last inspection. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
FIELD_STRUCT_DESC: 2 of 10 items under Board Order 5200, 5200A, and 5200B: 36-inch concrete reinforced drain pipe through levee along landward shoulder, 11.1 feet below crown. Crossing saddles landward slope, open on both ends. (Board Order 5200B-1967)
FS Date: 07/17/2015

LM Start	6.45	Rating **	M	Issue No.	57 (cont)
LM End	6.45	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_5649.jpg



Front view of upstream headwall on LS

Photo 2 of 3 : UCIP_FA_2015_5650.jpg



View of crossing through ramp.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.45	Rating **	M	Issue No.	57 (cont)
LM End	6.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.508298 °	39.508298 °
				-121.715100 °	-121.715100 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46280					
DS_ID:16363					
EP_NO: 5200B					
FS_HLM: 6.555					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5651.jpg



View of crossing looking U/S at ramp.

LM Start	6.53	Rating **	M	Issue No.	2
LM End	6.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.507337 °	39.507337 °
				-121.715693 °	-121.715693 °
DWR ID	DWR_MA0013_01_s_2012_2				
Action/Comments					
Material					

Photo 1 of 1 : FA_2015_MA0013_300_2_20150910_00001.jpg



View of a concrete block along the toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.99	Rating **	U	Issue No.	58
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5762.jpg



View of WS slope and toe.

Action/Comments					
Inspector Comments: FS_ID:46286 DS_ID:16329 EP_NO: N/A FS_HLM: 7.094 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition. LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.10). FS Date: 07/17/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.99	Rating **	U	Issue No.	58 (cont)
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46286 DS_ID:16329 EP_NO: N/A FS_HLM: 7.094 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition. LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.10). FS Date: 07/17/2015					

Photo 2 of 3 : UCIP_FA_2015_5763.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.99	Rating **	U	Issue No.	58 (cont)
LM End	6.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.501479 °	39.501479 °
				-121.719710 °	-121.719710 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5764.jpg



WS Flap Gate

Action/Comments					
Inspector Comments: FS_ID:46286 DS_ID:16329 EP_NO: N/A FS_HLM: 7.094 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS screw gate needs to be replaced. Everything else with crossing seems to be in good condition. LMA's inspection sheet of 2011 indicates settlement and visible corrosion. Damage/severe corrosion on screw gate where it bolts to headwall. No visible signs of settlement due to high vegetation cover. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared slopes for this crossing. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. There were no apparent signs of settling. LS screw gate is still damaged. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.10). FS Date: 07/17/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.22	Rating **	U	Issue No.	59
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.498845 °	39.498845 °
				-121.722440 °	-121.722440 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46287
 DS_ID:16354
 EP_NO: N/A
 FS_HLM: 7.33
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition. LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect
 ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.34).
 FS Date: 07/17/2015

Photo 1 of 3 : UCIP_FA_2015_5765.jpg



WS Flap Gate

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.22	Rating **	U	Issue No.	59 (cont)
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.498845 °	39.498845 °
				-121.722440 °	-121.722440 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46287
 DS_ID:16354
 EP_NO: N/A
 FS_HLM: 7.33
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition. LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect
 ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.34).
 FS Date: 07/17/2015

Photo 2 of 3 : UCIP_FA_2015_5766.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.22	Rating **	U	Issue No.	59 (cont)
LM End	7.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.498845 °	39.498845 °
				-121.722440 °	-121.722440 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5767.jpg



View of WS slope and toe.

Action/Comments					
Inspector Comments: FS_ID:46287 DS_ID:16354 EP_NO: N/A FS_HLM: 7.33 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS screw gate stem is still bent. Gate should still be able to close fully. The rest of the crossing seems to be in good condition. LS slide gate stem is bent and needs to be replaced. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared slopes during next inspection. Confirmed flap gate on WS. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#USACE_CESPK_M13D_2011_p_0244 for submerged WS gate. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. LS screw gate stem is still bent. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 11.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.34). FS Date: 07/17/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.46	Rating **	M	Issue No.	60
LM End	7.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.496146 °	39.496146 °
				-121.725160 °	-121.725160 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46288

DS_ID:16352

EP_NO: N/A

FS_HLM: 7.571

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 7/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.58).

FS Date: 07/17/2015

Photo 1 of 3 : UCIP_FA_2015_5292.jpg



View of WS flap gate. Dense vegetation on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.46	Rating **	M	Issue No.	60 (cont)
LM End	7.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.496146 °	39.496146 °
				-121.725160 °	-121.725160 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46288 DS_ID:16352 EP_NO: N/A FS_HLM: 7.571 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.58). FS Date: 07/17/2015					

Photo 2 of 3 : UCIP_FA_2015_5293.jpg



WS view of slope and channel.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.46	Rating **	M	Issue No.	60 (cont)
LM End	7.46	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.496146 °	39.496146 °
				-121.725160 °	-121.725160 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46288 DS_ID:16352 EP_NO: N/A FS_HLM: 7.571 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS ditch is getting to be heavily vegetated but it is not yet affecting flap gate operation. Vegetation needs to be cleared back some. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/2/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Screw gate on the landward end. Concrete headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 7.58). FS Date: 07/17/2015					

Photo 3 of 3 : UCIP_FA_2015_5294.jpg



View of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.27	Rating **	M	Issue No.	61
LM End	8.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.485432 °	39.485432 °
				-121.731590 °	-121.731590 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46293
 DS_ID:16322
 EP_NO: N/A
 FS_HLM: 8.397
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out. Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes. 7/15/2013 Slopes are cleared of vegetation and are in good condition. WS flapgate is blocked from opening fully by sediment. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.40).
 FS Date: 07/17/2015

Photo 1 of 3 : UCIP_FA_2015_5441.jpg



View of WS slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.27	Rating **	M	Issue No.	61 (cont)
LM End	8.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.485432 °	39.485432 °
				-121.731590 °	-121.731590 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46293 DS_ID:16322 EP_NO: N/A FS_HLM: 8.397 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out. Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes. 7/15/2013 Slopes are cleared of vegetation and are in good condition. WS flapgate is blocked from opening fully by sediment. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.40). FS Date: 07/17/2015					

Photo 2 of 3 : UCIP_FA_2015_5442.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.27	Rating **	M	Issue No.	61 (cont)
LM End	8.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.485432 °	39.485432 °
				-121.731590 °	-121.731590 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46293 DS_ID:16322 EP_NO: N/A FS_HLM: 8.397 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Minor sediment build up blocking flap gate from opening on WS. Needs to be dug out.Sediment build up on LS. Debris (broken panels) scattered near LS headwall. Limited inspection on WS and LS slope due to dense vegetation. Need photos of cleared WS and LS slopes.7/15/2013 Slopes are cleared of vegetation and are in good condition. WS flapgate is blocked from opening fully by sediment.12/3/2013 Same as last inspection.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 9.3 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.40). FS Date: 07/17/2015					

Photo 3 of 3 : UCIP_FA_2015_5443.jpg



View of WS flap gate and headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.82	Rating **	U	Issue No.	62
LM End	8.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478573 °	39.478573 °
				-121.736550 °	-121.736550 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46328 DS_ID:16323 EP_NO: N/A FS_HLM: 8.952 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: Richvale Irrigation Canal siphon crosses the channel. Five (5) by seven (7) foot concrete conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on waterward side. Concrete headwall on the landward side. 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.95). FS Date: 07/21/2015					

Photo 1 of 3 : UCIP_FA_2015_4939.jpg



Catwalk and screw gate located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.82	Rating **	U	Issue No.	62 (cont)
LM End	8.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478573 °	39.478573 °
				-121.736550 °	-121.736550 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46328 DS_ID:16323 EP_NO: N/A FS_HLM: 8.952 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: Richvale Irrigation Canal siphon crosses the channel. Five (5) by seven (7) foot concrete conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on waterward side. Concrete headwall on the landward side. 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.95). FS Date: 07/21/2015					

Photo 2 of 3 : UCIP_FA_2015_4940.jpg



View of LS structure. Erosion present behind headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.82	Rating **	U	Issue No.	62 (cont)
LM End	8.82	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.478573 °	39.478573 °
				-121.736550 °	-121.736550 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46328
DS_ID:16323
EP_NO: N/A
FS_HLM: 8.952
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 7/13/2015 Erosion still present behind the LS headwall. It looks to be getting worse and is starting to affect the levee slope. Concrete headwall is cracked, erosion behind headwall is also present. LS headwall needs to be repaired/replaced. Remove wooden debris from levee shoulder. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.
FIELD_STRUCT_DESC: Richvale Irrigation Canal siphon crosses the channel. Five (5) by seven (7) foot concrete conduit through the levee, 18.4 feet below the crown. Distribution box and walkway are located on waterward side. Concrete headwall on the landward side. 28-foot reinforced concrete protective slab on top of the conduit in the center of the levee (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 8.95).
FS Date: 07/21/2015

Photo 3 of 3 : UCIP_FA_2015_4941.jpg



Catwalk & gate located on WS. No daylight point on WS.

LM Start	8.90	Rating **	M	Issue No.	63
LM End	8.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477530 °	39.477530 °
				-121.737060 °	-121.737060 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46300
DS_ID:16328
EP_NO: 1234A
FS_HLM: 9.03
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 7/13/2015 Crossing appears in good condition. No noticeable issues to report. Need to contact owner to replace marker. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.
FIELD_STRUCT_DESC: Underground telephone cable through the levee. Depth unknown. (Permit No. 1234-1947)
FS Date: 07/17/2015

Photo 1 of 1 : UCIP_FA_2015_3195.jpg



Underground telephone cable marker located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.95	Rating **	M	Issue No.	64
LM End	8.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476839 °	39.476839 °
				-121.737540 °	-121.737540 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46301 DS_ID:16317 EP_NO: N/A FS_HLM: 9.085 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS inlet has minor vegetation still. WS appears in good condition. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.09). FS Date: 07/17/2015					

Photo 1 of 3 : UCIP_FA_2015_3196.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.95	Rating **	M	Issue No.	64 (cont)
LM End	8.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476839 °	39.476839 °
				-121.737540 °	-121.737540 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46301
 DS_ID:16317
 EP_NO: N/A
 FS_HLM: 9.085
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 LS inlet has minor vegetation still. WS appears in good condition. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.09).
 FS Date: 07/17/2015

Photo 2 of 3 : UCIP_FA_2015_3197.jpg



View of WS slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.95	Rating **	M	Issue No.	64 (cont)	
LM End	8.95	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.476839 °	39.476839 °	
				-121.737540 °	-121.737540 °	
DWR ID						

Action/Comments					
Inspector Comments: FS_ID:46301 DS_ID:16317 EP_NO: N/A FS_HLM: 9.085 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 LS inlet has minor vegetation still. WS appears in good condition. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspections as Corp's Inpect ID# USACE_CESPK_M13D_2011_p_0278 for WS outlet sedimentation and sediment/grass at LS inlet. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee, 10.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). Flashboards should be present on the landward side. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.09). FS Date: 07/17/2015					

Photo 3 of 3 : UCIP_FA_2015_3198.jpg



View of LS slope and toe.

LM Start	9.70	Rating **	M	Issue No.	5
LM End	9.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.467170 °	39.466860 °
				-121.743887 °	-121.744108 °
DWR ID	DWR_MA0013_01_s_2012_5				

Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : FA_2015_MA0013_300_5_20150910_00003.jpg



Trim the trees along the landside slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.74	Rating **	M	Issue No.	10
LM End	9.74	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.466635 °	39.466635 °
				-121.744228 °	-121.744228 °
DWR ID	DWR_MA0013_01_f_2013_10				
Action/Comments					
Material Inspector Comments: Move the trailer and materials outside the 10 foot easement.					

Photo 1 of 1 : FA_2015_MA0013_300_10_20150910_00005.jpg



View of a trailer & material along the L/S toe.

LM Start	11.04	Rating **	M	Issue No.	17
LM End	13.28	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.449777 °	39.421255 °
				-121.755103 °	-121.774893 °
DWR ID	DWR_MA0013_01_s_2012_17				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_300_17_20150910_00007.jpg



View of the agricultural ditch along the toe of the levee.

LM Start	11.58	Rating **	M	Issue No.	4
LM End	11.59	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.442821 °	39.442738 °
				-121.759851 °	-121.759908 °
DWR ID					
Action/Comments					
Inspector Comments: 2011 - Small erosion pocket likely caused by irrigation diversion structure. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: CHK_11-7_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	12.19	Rating **	M	Issue No.	65
LM End	12.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435169 °	39.435169 °
				-121.765290 °	-121.765290 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46308					
DS_ID:16334					
EP_NO: N/A					
FS_HLM: 12.364					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/13/2015 New screw gate installed inside the WS standpipe. Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylight after WS slope is cleared. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 11.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.38).					
FS Date: 07/17/2015					

Photo 1 of 3 : UCIP_FA_2015_5104.jpg



View of Ws slope and channel.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	12.19	Rating **	M	Issue No.	65 (cont)
LM End	12.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435169 °	39.435169 °
				-121.765290 °	-121.765290 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46308
 DS_ID:16334
 EP_NO: N/A
 FS_HLM: 12.364
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 New screw gate installed inside the WS standpipe. Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylighted after WS slope is cleared. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe. 12/3/2013 Same as last inspection. 5/21/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 11.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.38).
 FS Date: 07/17/2015

Photo 2 of 3 : UCIP_FA_2015_5149.jpg



Slide gate located on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	12.19	Rating **	M	Issue No.	65 (cont)	
LM End	12.19	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.435169 °	39.435169 °	
				-121.765290 °	-121.765290 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46308 DS_ID:16334 EP_NO: N/A FS_HLM: 12.364 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 New screw gate installed inside the WS standpipe. Limited inspection on WS and LS slope due to dense vegetation. WS outlet of pipe not found. Need photos of cleared WS and LS slopes. Determine if WS outlet daylights after WS slope is cleared.7/15/2013 Slopes have been cleared of vegetation and are in good condition. Still no sign of WS end of pipe.12/3/2013 Same as last inspection.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 11.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 12.38). FS Date: 07/17/2015						

Photo 3 of 3 : UCIP_FA_2015_5150.jpg



Overview of levee crown at crossing looking downstream.

LM Start	13.31	Rating **	M	Issue No.	66
LM End	13.31	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420920 °	39.420920 °
				-121.775300 °	-121.775300 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46311 DS_ID:16461 EP_NO: 17030 FS_HLM: 13.5 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 7/13/2015 Unable to locate.Attempt to locate this crossing during next inspection when tall grass is cleared from slopes-look for utility markers.7/15/2013 Same as last inspection. Unable to locate any markers.12/3/2013 Unable to locate.5/21/2014 Same as last inspection. FIELD_STRUCT_DESC: Three 2-inch-diameter and Three 1.5-inch-diameter conduits containing fiber optic cables across and under (bored) Cherokee Canal and its levees. The permit indicates the conduits must be bored at least 5-feet below the bottom of the low flow of the channel. (Permit No. 17030-2000) FS Date: 07/17/2015					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	13.76	Rating **	U	Issue No.	67
LM End	13.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416833 °	39.416833 °
				-121.781930 °	-121.781930 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46313					
DS_ID:16338					
EP_NO: N/A					
FS_HLM: 13.959					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 7/13/2015 WS flap gate is blocked from opening by sediment and vegetation. Needs to be cleared away. LS opening is being over grown by a tree and needs to be cutback.Tree has fallen at LS inlet and damaged slide gate. The tree needs to be removed and screw gate repaired. Limited inspection on LS due to fallen tree.7/15/2013 Same as last inspection.12/3/2013 Same as last inspection.5/22/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 12.7 feet below the crown. Flap gate on the waterward side. Concrete "U" headwall on both ends (USACE-1960).					
FS Date: 07/17/2015					

LM Start	13.76	Rating **	U	Issue No.	67 (cont)
LM End	13.76	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_5264.jpg



Tree fallen at LS headwall.

Photo 2 of 3 : UCIP_FA_2015_5265.jpg



WS headwall and flap gate.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	13.76	Rating **	U	Issue No.	67 (cont)
LM End	13.76	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416833 °	39.416833 °
				-121.781930 °	-121.781930 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46313					
DS_ID:16338					
EP_NO: N/A					
FS_HLM: 13.959					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5266.jpg



View of channel at crossing.

LM Start	13.77	Rating **	M	Issue No.	68
LM End	13.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46314 DS_ID:16339 EP_NO: N/A FS_HLM: 13.968 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Abandoned crossing. Slide gate is buried on the WS.Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe.This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE_CESPK_M13D_2011_p_0352 for abandoned gate on WS slope.7/15/2013 Same as last inspection.12/3/2013 Same as last inspection.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 12 inch steel drainpipe through the levee, 3 feet below the crown. Gate valve on the waterward slope. 1/4-inch steel plate welded on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.97). FS Date: 07/17/2015					

Photo 1 of 2 : UCIP_FA_2015_5267.jpg



Buried slide gate on the WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	13.77	Rating **	M	Issue No.	68 (cont)
LM End	13.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416756 °	39.416756 °
				-121.782060 °	-121.782060 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46314 DS_ID:16339 EP_NO: N/A FS_HLM: 13.968 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 Abandoned crossing. Slide gate is buried on the WS. Non-functional crossing-buried slide gate on WS. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photo of cleared WS & LS slopes or toe. This crossing is listed in the USACE periodic inspection report as Corp's Inspection ID# USACE_CESPK_M13D_2011_p_0352 for abandoned gate on WS slope. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 12 inch steel drainpipe through the levee, 3 feet below the crown. Gate valve on the waterward slope. 1/4-inch steel plate welded on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.97). FS Date: 07/17/2015					

Photo 2 of 2 : UCIP_FA_2015_5268.jpg



View of LS slope and toe. Unable to find welded plate on LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	14.58	Rating **	M	Issue No.	69
LM End	14.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.409481 °	39.409481 °
				-121.794010 °	-121.794010 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46315
 DS_ID:16368
 EP_NO: N/A
 FS_HLM: 14.792
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 Both sides of crossing were underwater at the time of inspection. Limited inspection on LS slope due to dense vegetation. Need photos of cleared WS & LS slopes. The flap gate is lodged open. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. WS flapgate is still lodged open. 12/3/2013 Same as last inspection. 5/22/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal drainpipe through the levee, 12.9 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 14.79).
 FS Date: 07/17/2015

LM Start	14.58	Rating **	M	Issue No.	69 (cont)
LM End	14.58	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_5269.jpg



Headwall and flapgate located on water side of levee

Photo 2 of 3 : UCIP_FA_2015_5270.jpg



Head wall and screw gate located on land side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	14.58	Rating **	M	Issue No.	69 (cont)
LM End	14.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.409481 °	39.409481 °
				-121.794010 °	-121.794010 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46315					
DS_ID:16368					
EP_NO: N/A					
FS_HLM: 14.792					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5271.jpg



Headwall and flapgate located on water side of levee

LM Start	15.02	Rating **	C	Issue No.	45
LM End	15.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.405542 °	39.405542 °
				-121.800392 °	-121.800392 °
DWR ID	DWR_MA0013_01_f_2014_45				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Sutter Yard repaired the rodent holes along the waterside slope.					

No Photos

LM Start	15.72	Rating **	U	Issue No.	70
LM End	15.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.399051 °	39.399051 °
				-121.810550 °	-121.810550 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46317					
DS_ID:16364					
EP_NO: 7521					
FS_HLM: 15.949					
Repair Type: Urgent					
Crossing Status: Found					

Photo 1 of 3 : UCIP_FA_2015_4709.jpg



View of headwall within channel.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.72	Rating **	U	Issue No.	70 (cont)
LM End	15.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.399051 °	39.399051 °
				-121.810550 °	-121.810550 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46317 DS_ID:16364 EP_NO: 7521 FS_HLM: 15.949 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition.Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes.7/15/2013 Slopes have been cleared of vegetation and are in good condition.12/3/2013 Same as last inspection.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 13.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. A 48 inch corrugated metal standpipe located approximately 12 feet from landside levee toe. (Permit No. 7521-1972) FS Date: 07/17/2015					

Photo 2 of 3 : UCIP_FA_2015_4710.jpg



View of WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.72	Rating **	U	Issue No.	70 (cont)
LM End	15.72	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.399051 °	39.399051 °
				-121.810550 °	-121.810550 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46317 DS_ID:16364 EP_NO: 7521 FS_HLM: 15.949 Repair Type: Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS pipe end is heavily vegetated with trees and is making it almost impossible to inspect. Needs to be cleared out. LS appears in good condition. Limited inspection on WS and LS slopes/toe due to dense vegetation. Erosion behind headwall on WS toe. Need photos of cleared WS & LS slopes. 7/15/2013 Slopes have been cleared of vegetation and are in good condition. 12/3/2013 Same as last inspection. 5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainpipe through the levee, 13.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. A 48 inch corrugated metal standpipe located approximately 12 feet from landside levee toe. (Permit No. 7521-1972) FS Date: 07/17/2015					

Photo 3 of 3 : UCIP_FA_2015_4711.jpg



Overview of levee crown at crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.77	Rating **	M	Issue No.	71
LM End	15.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398615 °	39.398615 °
				-121.811250 °	-121.811250 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46318
 DS_ID:16373
 EP_NO: 11805B
 FS_HLM: 15.992
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/13/2015 LS inlet still underwater. WS screwgate appears in good condition. Wooden walkway to the screwgate needs repairs. LS inlet is not visible-underwater. Limited inspection on WS and LS slope/toe due to dense vegetation. Need photos of cleared WS & LS slopes. 7/15/2013 Same as last inspection. 12/3/2013 Same as last inspection. 5/22/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 48-inch diameter reinforced concrete pipe with six concrete collars through the levee, 14.4 feet below the crown to center of conduit. Slide gate, head-wall and wood walkway on two concrete piers on waterward side of levee. Revetment on waterward slope. Irrigation ditch on the landward side. (Permit No. 11805B-1979)
 FS Date: 07/17/2015

LM Start	15.77	Rating **	M	Issue No.	71 (cont)
LM End	15.77	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_4712.jpg



WS view of appurtenances (catwalk, slide gate, and headwall)

Photo 2 of 3 : UCIP_FA_2015_4713.jpg



WS view of catwalk, slide/screw gate, and headwall

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.77	Rating **	M	Issue No.	71 (cont)
LM End	15.77	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398615 °	39.398615 °
				-121.811250 °	-121.811250 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46318					
DS_ID:16373					
EP_NO: 11805B					
FS_HLM: 15.992					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4714.jpg



LS view of shoulder and slope.

LM Start	16.22	Rating **	M	Issue No.	7
LM End	17.17	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.394523 °	39.385580 °
				-121.817630 °	-121.831282 °
DWR ID	DWR_MA0013_01_s_2012_7				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_300_7_20150910_00004.jpg



View of the agricultural along the toe of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	17.18	Rating **	M	Issue No.	72
LM End	17.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385540 °	39.385540
				-121.831280 °	-121.831280
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46323 DS_ID:16371 EP_NO: 3511 FS_HLM: 17.42 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 7/13/2015 Unable to locate.Unable to determine if cable is still in use, per permit records indicate communication cable was installed in 1961, 1968 USACE requested to abandon line, 1974 USACE communication is not abandoned. Cable crosses multiple levees.7/15/2013 Same as last inspection. Unable to locate.12/3/2013 Unable to locate.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: U.S. Army communication cable through the levee, 3.0 feet below the crown. (Permit No. 3511-1961) FS Date: 07/20/2015					

No Photos

LM Start	17.22	Rating **	M	Issue No.	73
LM End	17.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385172 °	39.385172 °
				-121.832060 °	-121.832060 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46326 DS_ID:16369 EP_NO: N/A FS_HLM: 17.471 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes.7/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flapgate is blocked from opening by sediment buildup.12/3/2013 Sediment was dug out from WS flapgate allowing it to open.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 8.1 feet below the crown. Flap gate on the waterward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.47). FS Date: 07/20/2015					

Photo 1 of 3 : UCIP_FA_2015_4805.jpg



View of WS slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	17.22	Rating **	M	Issue No.	73 (cont)
LM End	17.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.385172 °	39.385172 °
				-121.832060 °	-121.832060 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46326 DS_ID:16369 EP_NO: N/A FS_HLM: 17.471 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes.7/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flapgate is blocked from opening by sediment buildup.12/3/2013 Sediment was dug out from WS flapgate allowing it to open.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 8.1 feet below the crown. Flap gate on the waterward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.47). FS Date: 07/20/2015					

Photo 2 of 3 : UCIP_FA_2015_4806.jpg



View of LS headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	17.22	Rating **	M	Issue No.	73 (cont)	
LM End	17.22	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.385172 °	39.385172 °	
				-121.832060 °	-121.832060 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46326 DS_ID:16369 EP_NO: N/A FS_HLM: 17.471 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/13/2015 WS flap gate is blocked from opening by sediment. Needs to be dug out.Limited inspection on WS and LS slope due to dense vegetation and steep slopes. Need photos of cleared WS & LS slopes.7/15/2013 Slopes have been sprayed and cleared of vegetation and are in good condition. WS flapgate is blocked from opening by sediment buildup.12/3/2013 Sediment was dug out from WS flapgate allowing it to open.5/22/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainpipe through the levee, 8.1 feet below the crown. Flap gate on the waterward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.47). FS Date: 07/20/2015						

Photo 3 of 3 : UCIP_FA_2015_4807.jpg



View of WS headwall and flap gate.

LM Start	17.46	Rating **	M	Issue No.	9
LM End	17.50	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.382943 °	39.382635 °
				-121.835447 °	-121.836012 °
DWR ID	DWR_MA0013_01_s_2012_9				
Action/Comments					
Ditch					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Cherokee Canal	Right	18.19	11/06/2015 11/06/2015	Bob Duffey

LM Start	17.47	Rating **	M	Issue No.	15
LM End	17.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.382852 °	39.378481 °
				-121.835654 °	-121.842394 °
DWR ID	DWR_MA0013_01_s _ 2012_15				
Action/Comments					
Ditch					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0013

Waterway			Bank	Unit Miles
Unit No. 02 Cherokee Canal			Left	22.84
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	05/12/2015 - 05/12/2015		11/06/2015 - 11/06/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Shawn Freitag Sutter Maintenance Yard		Shawn Freitag Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.07	Rating **	M	Issue No.	1
LM End	0.17	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.573523 °	39.572455 °
				-121.701387 °	-121.702370 °
DWR ID	DWR_MA0013_02_s_2012_1				
Action/Comments					
Equipment					

No Photos

LM Start	0.58	Rating **	M	Issue No.	912
LM End	0.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46158 DS_ID:16398 EP_NO: N/A FS_HLM: 0.58 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS pipe end is still about 50% full of sediment.Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken.12/9/2013 Same as last inspection.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.57). FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_4832.jpg



Screw gate located on WS of levee. Screw gate covers needs to be repaired.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.58	Rating **	M	Issue No.	912 (cont)
LM End	0.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46158

DS_ID:16398

EP_NO: N/A

FS_HLM: 0.58

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 7/1/2015 LS pipe end is still about 50% full of sediment. Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.57).

FS Date: 07/07/2015

Photo 2 of 3 : UCIP_FA_2015_4833.jpg



Overview looking south

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	0.58	Rating **	M	Issue No.	912 (cont)
LM End	0.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.566479 °	39.566479 °
				-121.702430 °	-121.702430 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_4834.jpg



View of WS slope and toe.

Action/Comments					
Inspector Comments: FS_ID:46158 DS_ID:16398 EP_NO: N/A FS_HLM: 0.58 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS pipe end is still about 50% full of sediment. Need to fix the top of slide gate cover. The wooden cap on standpipe is broken. Limited evaluation of crossing due to dense vegetation on LS slope. Need photos of cleared slopes during fall inspection. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. LS pipe end is half full of sediment. Sediment inside of WS standpipe may hinder slide gate from fully closing. Standpipe cover is still broken. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.6 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. 36-inch concrete standpipe in the channel with two wooden piles to deflect debris. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 0.57). FS Date: 07/07/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.70	Rating **	M	Issue No.	913
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_4951.jpg



View of WS toe.

Action/Comments					
<p>Inspector Comments: FS_ID:46160 DS_ID:16399 EP_NO: N/A FS_HLM: 1.71 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS screw gate frame is still twisted and hindering the gate from opening. Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. 7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. Slide gate at the landward toe in headwall (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.70). In 1962, permit number 3953 was issued for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. FS Date: 07/07/2015</p>					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.70	Rating **	M	Issue No.	913 (cont)
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46160
 DS_ID:16399
 EP_NO: N/A
 FS_HLM: 1.71
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/1/2015 LS screw gate frame is still twisted and hindering the gate from opening. Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. 7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 24-inch CM drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. Slide gate at the landward toe in headwall (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.70). In 1962, permit number 3953 was issued for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed.
 FS Date: 07/07/2015

Photo 2 of 3 : UCIP_FA_2015_4952.jpg



View of flap gate on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	1.70	Rating **	M	Issue No.	913 (cont)
LM End	1.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.551178 °	39.551178 °
				-121.705660 °	-121.705660 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46160 DS_ID:16399 EP_NO: N/A FS_HLM: 1.71 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS screw gate frame is still twisted and hindering the gate from opening. Limited inspection dense vegetation on WS. Need photos of clear WS slope & toe. Ditch present in channel? This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13G_2011_p_0108 for WS flap gate filled with soil and LS gate not functioning because of overgrown vegetation. 7/10/2013 WS slope is cleared of vegetation and is in good condition. LS screw gate frame is twisted and is preventing the gate from opening. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainage pipe through the levee, 7.9 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. Slide gate at the landward toe in headwall (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 1.70). In 1962, permit number 3953 was issued for existing pump structure, intake box, ditch and power pole. In 1963, the pump and intake box were removed. FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_4953.jpg



Overview of crossing

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.53	Rating **	M	Issue No.	914
LM End	2.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.539195 °	39.539195 °
				-121.706070 °	-121.706070 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46161 DS_ID:16400 EP_NO: N/A FS_HLM: 2.55 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 New screwgate installed on the LS. WS flapgate is still blocked from opening by sediment. Handle missing on slide gate. 7/10/2013 Sediment is built up against WS flap gate not allowing it to open. Handle for LS slide gate is still missing. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal pipes through the levee, 9.7 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.54). FS Date: 07/07/2015					

LM Start	2.53	Rating **	M	Issue No.	914 (cont)
LM End	2.53	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_4954.jpg



Overview of levee crown looking south

Photo 2 of 3 : UCIP_FA_2015_4955.jpg



Headwall and flap gates (2) located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.53	Rating **	M	Issue No.	914 (cont)
LM End	2.53	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.539195 °	39.539195 °
				-121.706070 °	-121.706070 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46161 DS_ID:16400 EP_NO: N/A FS_HLM: 2.55 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4956.jpg



View of WS slope.

LM Start	2.62	Rating **	M	Issue No.	915
LM End	2.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46163 DS_ID:16402 EP_NO: N/A FS_HLM: 2.643 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open).7/10/2013 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). Structure used to drain water from Nelson Shippe Road. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.63). FS Date: 07/07/2015					

Photo 1 of 3 : UCIP_FA_2015_4343.jpg



Headwall and screw gate located on land side of levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.62	Rating **	M	Issue No.	915 (cont)
LM End	2.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46163 DS_ID:16402 EP_NO: N/A FS_HLM: 2.643 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open).7/10/2013 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). Structure used to drain water from Nelson Shippe Road. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.63). FS Date: 07/07/2015					

Photo 2 of 3 : UCIP_FA_2015_4957.jpg



Headwall and flap gate located on water side of levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.62	Rating **	M	Issue No.	915 (cont)
LM End	2.62	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537864 °	39.537864 °
				-121.706190 °	-121.706190 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46163 DS_ID:16402 EP_NO: N/A FS_HLM: 2.643 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 LS screwgate is still silted in and unable to be screwed down all the way. Needs to be cleaned out.Minor sediment built up on LS, remove sediment. Need photo of LS slide gate without sediment build up. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0148 for LS gate obstructed by vegetation and WS flap gate is not functioning (propped open).7/10/2013 Same as last inspection.12/9/2013 WS flapgate was closed but LS slidegate is heavily vegetated and blocked from closing by sediment.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). Structure used to drain water from Nelson Shippe Road. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.63). FS Date: 07/07/2015					

Photo 3 of 3 : UCIP_FA_2015_4958.jpg



Overview looking south from left levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.63	Rating **	M	Issue No.	916
LM End	2.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_3199.jpg



Action/Comments					
Inspector Comments: FS_ID:46204 DS_ID:16403 EP_NO: N/A FS_HLM: 2.656 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 WS flap gate is partially blocked by sediment and needs to be cleaned. Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.7 feet below the crown. Flap gate on the waterward end. Slide gate on landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.65). FS Date: 07/16/2015					

Headwall and flap gate located on WS

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.63	Rating **	M	Issue No.	916 (cont)
LM End	2.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_3200.jpg



Action/Comments					
Inspector Comments: FS_ID:46204 DS_ID:16403 EP_NO: N/A FS_HLM: 2.656 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 WS flap gate is partially blocked by sediment and needs to be cleaned. Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.7 feet below the crown. Flap gate on the waterward end. Slide gate on landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.65). FS Date: 07/16/2015					

Headwall and screw gate located on the LS

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.63	Rating **	M	Issue No.	916 (cont)
LM End	2.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537671 °	39.537671 °
				-121.706210 °	-121.706210 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46204 DS_ID:16403 EP_NO: N/A FS_HLM: 2.656 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 WS flap gate is partially blocked by sediment and needs to be cleaned.Burrowing holes located above WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes.7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition.12/9/2013 Same as last inspection.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.7 feet below the crown. Flap gate on the waterward end. Slide gate on landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.65). FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_3201.jpg



Overview at levee crown looking south

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.65	Rating **	M	Issue No.	917
LM End	2.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537466 °	39.537466 °
				-121.706240 °	-121.706240 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46206
 DS_ID:16415
 EP_NO: N/A
 FS_HLM: 2.671
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 7/1/2015 WS flap gate is partially held open by sediment and needs to be dug out to allow it to fully close. 7/10/2013 LS and WS slopes are in good condition. Both LS and WS gates were fully submerged in water and unable to be inspected. 12/9/2013 Both gates were out of water and in good condition. 5/29/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 9.0 feet below the crown. Flap gate on the waterward end. Slide gate on the landward side. Concrete "U" headwall on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 2.66).
 FS Date: 07/16/2015

LM Start	2.65	Rating **	M	Issue No.	917 (cont)
LM End	2.65	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_3202.jpg



Overview looking south from left levee

Photo 2 of 3 : UCIP_FA_2015_3203.jpg



Headwall and flap gate located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	2.65	Rating **	M	Issue No.	917 (cont)
LM End	2.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.537466 °	39.537466 °
				-121.706240 °	-121.706240 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46206					
DS_ID:16415					
EP_NO: N/A					
FS_HLM: 2.671					
Repair Type: Non-Urgent					
Crossing Status: Found					

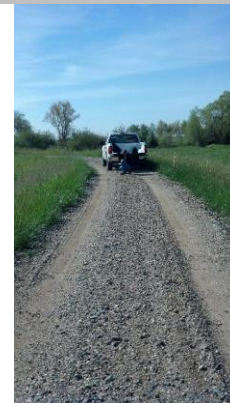
Photo 3 of 3 : UCIP_FA_2015_3204.jpg



WS headwall and flap gate.

LM Start	3.59	Rating **	M	Issue No.	918
LM End	3.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523829 °	39.523829 °
				-121.706290 °	-121.706290 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46207 DS_ID:16405 EP_NO: N/A FS_HLM: 3.624 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris. Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected. 12/9/2013 LS slide gate is completely buried by soil and WS flapgate is blocked from opening by sediment. Crossing appears abandoned and non-functional. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.61) FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_3205.jpg



Overview looking south from left levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.59	Rating **	M	Issue No.	918 (cont)
LM End	3.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523829 °	39.523829 °
				-121.706290 °	-121.706290 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_3206.jpg



Action/Comments					
<p>Inspector Comments: FS_ID:46207 DS_ID:16405 EP_NO: N/A FS_HLM: 3.624 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris. Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected. 12/9/2013 LS slide gate is completely buried by soil and WS flapgate is blocked from opening by sediment. Crossing appears abandoned and non-functional. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.61) FS Date: 07/16/2015</p>					

Flap gate submerged in water on WS of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.59	Rating **	M	Issue No.	918 (cont)
LM End	3.59	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523829 °	39.523829 °
				-121.706290 °	-121.706290 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_3207.jpg



Action/Comments					
Inspector Comments: FS_ID:46207 DS_ID:16405 EP_NO: N/A FS_HLM: 3.624 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Still a non functioning crossing. LS screw gate is completely buried by sediment with only part of its frame and stem visible. WS flapgate is blocked from opening by sediment and debris. Non-functioning crossing. Farmer uses pipe located at LM 3.682 to drain field & not this one. Dense vegetation-need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13G_2011_p_0172 for no access to WS gate due to high water & dense vegetation. 7/10/2013 LS and WS slopes have been cleared of vegetation and are in good condition. WS flap gate is out of water but is blocked from opening by sediment build up. LS gate is fully submerged and not able to be inspected. 12/9/2013 LS slide gate is completely buried by soil and WS flapgate is blocked from opening by sediment. Crossing appears abandoned and non-functional. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.5 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.61) FS Date: 07/16/2015					

View of flap gate submerged on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.65	Rating **	M	Issue No.	919
LM End	3.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523556 °	39.523556 °
				-121.705340 °	-121.705340 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5109.jpg



Action/Comments					
Inspector Comments: FS_ID:46208 DS_ID:16848 EP_NO: N/A FS_HLM: 3.684 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Both gates were still submerged in water. Levee slopes were in good condition. Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection. 7/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee, 9.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.67). FS Date: 07/16/2015					

Headwall and screw gate located on land side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.65	Rating **	M	Issue No.	919 (cont)	
LM End	3.65	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.523556 °	39.523556 °	
				-121.705340 °	-121.705340 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46208 DS_ID:16848 EP_NO: N/A FS_HLM: 3.684 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Both gates were still submerged in water. Levee slopes were in good condition. Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection. 7/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee, 9.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.67). FS Date: 07/16/2015						



Overview looking south on left levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.65	Rating **	M	Issue No.	919 (cont)
LM End	3.65	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523556 °	39.523556 °
				-121.705340 °	-121.705340 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5111.jpg



Action/Comments					
Inspector Comments: FS_ID:46208 DS_ID:16848 EP_NO: N/A FS_HLM: 3.684 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 Both gates were still submerged in water. Levee slopes were in good condition. Dense vegetation makes it difficult to evaluate the condition of the LS slope. Both gates underwater. Recommend taking photos of clear slopes and gates during fall inspection. 7/10/2013 LS slope has been cleared of vegetation and is in good condition. Both gates are still underwater and not able to be inspected. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee, 9.2 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.67). FS Date: 07/16/2015					

Headwall and flap gate located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.83	Rating **	M	Issue No.	920
LM End	3.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46209					
DS_ID:16847					
EP_NO: N/A					
FS_HLM: 3.864					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 7/1/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain. LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID#					
USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate. 7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks. 12/9/2013 Pulled sticks from WS flap gate to allow it to close. LS gate is still missing. 5/29/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.85).					
FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5112.jpg



Overview looking south on left levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.83	Rating **	M	Issue No.	920 (cont)
LM End	3.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46209 DS_ID:16847 EP_NO: N/A FS_HLM: 3.864 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain. LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate. 7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks. 12/9/2013 Pulled sticks from WS flap gate to allow it to close. LS gate is still missing. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.85). FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5113.jpg



Headwall and flap gate located on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.83	Rating **	M	Issue No.	920 (cont)
LM End	3.83	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.524350 °	39.524350 °
				-121.702180 °	-121.702180 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5114.jpg



Action/Comments					
Inspector Comments: FS_ID:46209 DS_ID:16847 EP_NO: N/A FS_HLM: 3.864 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 7/1/2015 There appears to be a LS gate now but both pipe ends were submerged so it was hard to tell for certain. LS gate missing & limited inspection. Need photos of WS & LS cleared slopes. Description calls for slide gate on LS-slide gate missing. Debris scattered near LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's Inspect ID# USACE_CESPK_M13J_2011_p_0010 for WS gate wedged open & missing LS slide gate. 7/10/2013 WS and LS slopes have been cleared of vegetation and are in good condition. LS gate is still missing and WS flap gate is still wedged open with sticks. 12/9/2013 Pulled sticks from WS flap gate to allow it to close. LS gate is still missing. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 8.8 feet below the crown. Flap gate on the waterward end. Slide gate on the landward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 3.85). FS Date: 07/16/2015					

View of channel at crossing looking D/S.

LM Start	3.88	Rating **	C	Issue No.	59
LM End	4.04	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.524802 °	39.526697 °
				-121.701262 °	121.699680 °
DWR ID	DWR_MA0013_02_s_2015_59				

No Photos

Action/Comments					
Repair depressions or ruts in the crown or slope. Inspector Comments: Sutter Yard repair the ruts in the crown roadway.					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	3.90	Rating **	C	Issue No.	58
LM End	4.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.524973 °	39.526697 °
				-121.701005 °	-121.699677 °
DWR ID	DWR_MA0013_02_s_2015_58				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Sutter Yard repairs the landside slope erosion.					

No Photos

LM Start	4.04	Rating **	M	Issue No.	911
LM End	4.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.526653 °	39.534091 °
				-121.699675 °	-121.690404 °
DWR ID	DWR_MA0013_02_s_2012_911				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_911_20150910_00019.jpg



View of agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.01	Rating **	M	Issue No.	921
LM End	5.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526298 °	39.526298 °
				-121.688320 °	-121.688320 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5151.jpg



View of channel at crossing.

Action/Comments					
<p>Inspector Comments: FS_ID:46212 DS_ID:16395 EP_NO: N/A FS_HLM: 5.063 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition. Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.06). FS Date: 07/16/2015</p>					

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.01	Rating **	M	Issue No.	921 (cont)
LM End	5.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526298 °	39.526298 °
				-121.688320 °	-121.688320 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46212					
DS_ID:16395					
EP_NO: N/A					
FS_HLM: 5.063					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition. Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.06).					
FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5152.jpg



Headwall and flap gate located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.01	Rating **	M	Issue No.	921 (cont)
LM End	5.01	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.526298 °	39.526298 °
				-121.688320 °	-121.688320 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46212					
DS_ID:16395					
EP_NO: N/A					
FS_HLM: 5.063					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Erosion on LS does not appear to be getting any worse with the rip-rap there. WS pipe end and gate appeared in good condition. Rusted pipe debris located on WS. Remove pipe debris on WS and monitor the LS erosion near headwall. Rip-rap used to protect LS headwall from erosion. Was pipe exposed prior to dumping rock? Erosion on the LS could have exposed pipe. Dense shrub on the LS could restrict flow. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 8.6 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.06).					
FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_5153.jpg



Overview looking west on the left levee of Cottonwood

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.29	Rating **	M	Issue No.	922
LM End	5.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46217					
DS_ID:16409					
EP_NO: N/A					
FS_HLM: 5.34					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away. Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID#					
USACE_CESPK_M13H_2011_p_0035 non-functional crossing due to overgrown vegetation on WS flap gate. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 5.8 feet below the crown. Flap gate on the waterward side. Slide gate on the landward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.34).					
FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5281.jpg



Overview of crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.29	Rating **	M	Issue No.	922 (cont)
LM End	5.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_5282.jpg



Action/Comments					
Inspector Comments: FS_ID:46217 DS_ID:16409 EP_NO: N/A FS_HLM: 5.34 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away. Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 non-functional crossing due to overgrown vegetation on WS flap gate. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 5.8 feet below the crown. Flap gate on the waterward side. Slide gate on the landward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.34). FS Date: 07/16/2015					

Headwall and flap gate located on water side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.29	Rating **	M	Issue No.	922 (cont)
LM End	5.29	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525958 °	39.525958 °
				-121.692730 °	-121.692730 °
DWR ID					

Photo 3 of 3 : UCIP_FA_2015_5283.jpg



Action/Comments					
<p>Inspector Comments: FS_ID:46217 DS_ID:16409 EP_NO: N/A FS_HLM: 5.34 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 WS flap gate was still overgrown with vegetation. Needs to be cleared away. Limited inspection on WS slope due to dense vegetation. Need photo of clear WS slope during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0035 non-functional crossing due to overgrown vegetation on WS flap gate. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 5.8 feet below the crown. Flap gate on the waterward side. Slide gate on the landward side. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.34). FS Date: 07/16/2015</p>					

View of WS headwall with dense vegetation in channel.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.36	Rating **	M	Issue No.	923
LM End	5.36	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.525361 °	39.525361 °
				-121.693630 °	-121.693630 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46218 DS_ID:16410 EP_NO: N/A FS_HLM: 5.404 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Pipe still present with the cap on the waterside. Limited inspection on WS and LS slope due to dense vegetation. Need photos of clear slopes during next inspection. Metal plate bolted on pipe for closure on WS, open on LS. 7/9/2013 Same as last inspection. 12/9/2013 Same as last inspection. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 1.6 feet below the crown. Plate bolted on the waterward end. Open on the landward end. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 5.41). FS Date: 07/16/2015					

LM Start	5.36	Rating **	M	Issue No.	923 (cont)
LM End	5.36	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2015_5284.jpg



Capped irrigation pipe located on water side of levee

Photo 2 of 2 : UCIP_FA_2015_5285.jpg



Overview of site

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.80	Rating **	U	Issue No.	924
LM End	5.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523381 °	39.523381 °
				-121.701270 °	-121.701270 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46219					
DS_ID:16411					
EP_NO: N/A					
FS_HLM: 5.853					
Repair Type: Urgent					
Crossing Status: Found					

LM Start	5.80	Rating **	U	Issue No.	924 (cont)
LM End	5.80	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_5286.jpg



Overview looking south

Photo 2 of 3 : UCIP_FA_2015_5287.jpg



Headwall and damaged/missing screw gate on land side of levee

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.80	Rating **	U	Issue No.	924 (cont)
LM End	5.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523381 °	39.523381 °
				-121.701270 °	-121.701270 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46219					
DS_ID:16411					
EP_NO: N/A					
FS_HLM: 5.853					
Repair Type: Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5288.jpg



Headwall and flap gate on water side of levee

LM Start	5.80	Rating **	M	Issue No.	925
LM End	5.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523370 °	39.523370 °
				-121.701330 °	-121.701330 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46220 DS_ID:16466 EP_NO: 13170 FS_HLM: 5.856 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 High water on both side of crossing still. Slopes appear in good condition. Both pipe ends and gates were submerged.Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0058 for high water unable to see crossing.7/9/2013 Same as last inspection.12/9/2013 Same as last inspection.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36 inch corrugated metal pipe through the levee approximately 7 feet below crown. Flap gate is located on the waterward side. (13170-1981) FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5289.jpg



Overview photo of crossing looking downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	5.80	Rating **	M	Issue No.	925 (cont)
LM End	5.80	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.523370 °	39.523370 °
				-121.701330 °	-121.701330 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46220 DS_ID:16466 EP_NO: 13170 FS_HLM: 5.856 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 High water on both side of crossing still. Slopes appear in good condition. Both pipe ends and gates were submerged.Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13H_2011_p_0058 for high water unable to see crossing.7/9/2013 Same as last inspection.12/9/2013 Same as last inspection.5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 36 inch corrugated metal pipe through the levee approximately 7 feet below crown. Flap gate is located on the waterward side. (13170-1981) FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5290.jpg



Flap gate on WS unable to determine slope condition on WS due to overgrown vegetation.

Photo 3 of 3 : UCIP_FA_2015_5291.jpg



Headwall and screw gate on land side of levee

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.07	Rating **	M	Issue No.	926
LM End	6.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522457 °	39.522457 °
				-121.706030 °	-121.706030 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46223					
DS_ID:17374					
EP_NO: N/A					
FS_HLM: 6.125					
Repair Type: Non-Urgent					
Crossing Status: Found					

LM Start	6.07	Rating **	M	Issue No.	926 (cont)
LM End	6.07	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP_FA_2015_4715.jpg



3 of 3 Eight (8) foot by Ten (10) foot siphon. (downstream conduit)

Photo 2 of 3 : UCIP_FA_2015_4716.jpg



Overview looking south from levee

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	6.07	Rating **	M	Issue No.	926 (cont)
LM End	6.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.522457 °	39.522457 °
				-121.706030 °	-121.706030 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46223					
DS_ID:17374					
EP_NO: N/A					
FS_HLM: 6.125					
Repair Type: Non-Urgent					
Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_4717.jpg



View of Western Canal Siphon (Richvale Siphon) looking south.

LM Start	6.12	Rating **	M	Issue No.	55
LM End	6.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.521634 °	39.521634
				-121.706184 °	-121.706184
DWR ID	DWR_MA0013_02_s_2014_55				
Action/Comments					
Tree or limb					
Inspector Comments: Remove the tree limbs from the landside slope.					

Photo 1 of 1 : FA_2015_MA0013_301_55_20150910_00014.jpg



View of the tree limbs on the landside slope and toe.

LM Start	6.18	Rating **	M	Issue No.	12
LM End	7.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.520843 °	39.502958 °
				-121.706345 °	-121.716953 °
DWR ID	DWR_MA0013_02_s_2012_12				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_12_20150910_00005.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	7.18	Rating **	M	Issue No.	927
LM End	7.18	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.507570 °	39.507570 °
				-121.713870 °	-121.713870 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:46227 DS_ID:17518 EP_NO: 5200B FS_HLM: 7.253 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 6/30/2015 Unable to locate. Not found - Need to verify if there are any signs of the structure during next inspection when slopes are cleared. If not will need to coordinate with applicant regarding the fate of this structure. 7/9/2013 Same as last inspection. Unable to locate. 12/9/2013 Unable to locate. 5/29/2014 Same as last inspection. FIELD_STRUCT_DESC: 10 of 10 items listed under Board Order 5200, 5200A, 5200B: 36 inch corrugated metal spill pipe through the levee embankment, unknown depth. (Board Order No. 5200B-1967) FS Date: 07/16/2015					

LM Start	7.46	Rating **	M	Issue No.	60
LM End	8.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.503943 °	39.495120 °
				-121.716310 °	-121.724060 °
DWR ID	DWR MA0013 02 s 2015 60				

Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation. Inspector Comments: Repair the ruts in the crown roadway.					

Photo 1 of 1 : FA_2015_MA0013_301_60_20150910_00017.jpg



View of the ruts in the crown roadway.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.30	Rating **	M	Issue No.	928
LM End	8.30	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.493850 °	39.493850 °
				-121.724780 °	-121.724780 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46228 DS_ID:16413 EP_NO: 14704 FS_HLM: 8.384 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing is in good condition. Unusre on the permit issues below.11/4/14 (DWR-Olivia Magana) Need to contact owner to determine whether both communication are still active and same alignment? permit 14704 (LM 8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No Action Needed to Non-Urgent.5/29/2014 Same as last inspection.12/4/2013 Same as last inspection.7/9/2013 Same as last inspection.Unable to verify whether this crossing includes both communication cable lines under permit 14704 (LM 8.38) and 10589 (see LM 8.39). FIELD_STRUCT_DESC: Fiber optic cable through levee at approximately 3.5 feet. The cable section across the channel is attached to the Cherokee Canal Dridge. (Permit No. 14704-1987) FS Date: 07/16/2015					



Buried cable box located on the LS edge.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.30	Rating **	M	Issue No.	928 (cont)
LM End	8.30	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.493850 °	39.493850 °
				-121.724780 °	-121.724780 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46228 DS_ID:16413 EP_NO: 14704 FS_HLM: 8.384 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing is in good condition. Unusre on the permit issues below.11/4/14 (DWR-Olivia Magana) Need to contact owner to determine whether both communication are still active and same alignment? permit 14704 (LM 8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No Action Needed to Non-Urgent.5/29/2014 Same as last inspection.12/4/2013 Same as last inspection.7/9/2013 Same as last inspection.Unable to verify whether this crossing includes both communication cable lines under permit 14704 (LM 8.38) and 10589 (see LM 8.39). FIELD_STRUCT_DESC: Fiber optic cable through levee at approximately 3.5 feet. The cable section across the channel is attached to the Cherokee Canal Dridge. (Permit No. 14704-1987) FS Date: 07/16/2015					

Photo 2 of 2 : UCIP_FA_2015_4813.jpg



WS view cable line attached to highway bridge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.30	Rating **	M	Issue No.	929
LM End	8.30	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.493780 °	39.493780 °
				-121.724840 °	-121.724840 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46229					
DS_ID:16404					
EP_NO: 10589A					
FS_HLM: 8.39					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 6/30/2015 Crossing appears in good condition.					
Unsure on the permit issues listed below.11/4/14 (DWR-Olivia					
Magana) Need to contact owner to determine whether both					
communication are still active and same alignment? permit 14704 (LM					
8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No					
Action Needed to Non-Urgent.5/29/2014 Same as last					
inspection.12/4/2013 Same as last inspection.7/9/2013 Same as					
last inspection.Unable to verify whether this crossing includes both					
communication cable lines under permit 14704 (LM 8.38) and 10589					
(see LM 8.39).					
FIELD_STRUCT_DESC: 4 inch steel pipe, contains three telephone					
cables, through the levee at approximately 4 feet below the crown. The					
cable through the channel is buried approximately 5 feet deep. (Permit					
No. 10589-1987)					
FS Date: 07/16/2015					

Photo 1 of 2 : UCIP_FA_2015_4817.jpg



Waterside view of utility line alignment through levee then attached to bridge.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	8.30	Rating **	M	Issue No.	929 (cont)
LM End	8.30	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.493780 °	39.493780 °
				-121.724840 °	-121.724840 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46229					
DS_ID:16404					
EP_NO: 10589A					
FS_HLM: 8.39					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 6/30/2015 Crossing appears in good condition.					
Unsure on the permit issues listed below.11/4/14 (DWR-Olivia					
Magana) Need to contact owner to determine whether both					
communication are still active and same alignment? permit 14704 (LM					
8.38) and 10589 (see LM 8.39) Priority changed in Part IX from No					
Action Needed to Non-Urgent.5/29/2014 Same as last					
inspection.12/4/2013 Same as last inspection.7/9/2013 Same as					
last inspection.Unable to verify whether this crossing includes both					
communication cable lines under permit 14704 (LM 8.38) and 10589					
(see LM 8.39).					
FIELD_STRUCT_DESC: 4 inch steel pipe, contains three telephone					
cables, through the levee at approximately 4 feet below the crown. The					
cable through the channel is buried approximately 5 feet deep. (Permit					
No. 10589-1987)					
FS Date: 07/16/2015					



Buried cable box located on the landside edge.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.56	Rating **	M	Issue No.	930
LM End	9.56	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46233					
DS_ID:16838					
EP_NO: N/A					
FS_HLM: 9.664					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crossing looked in good condition. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate. 7/9/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Crossing is part of the Richvale Irrigation District siphon structure. 36 inch CM pipe that drains into Cherokee Canal at about 11.2 feet below the crown. (USACE-1962) Slide gate is located on landward side. Flap gate is located on waterward side. Crossing angles to the southwest to a flap gate & headwall located about 60 feet from waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.66).					
FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5119.jpg



Overview of levee crown at crossing looking D/S.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.56	Rating **	M	Issue No.	930 (cont)
LM End	9.56	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46233 DS_ID:16838 EP_NO: N/A FS_HLM: 9.664 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crossing looked in good condition. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate. 7/9/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: Crossing is part of the Richvale Irrigation District siphon structure. 36 inch CM pipe that drains into Cherokee Canal at about 11.2 feet below the crown. (USACE-1962) Slide gate is located on landward side. Flap gate is located on waterward side. Crossing angles to the southwest to a flap gate & headwall located about 60 feet from waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.66). FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5120.jpg



WS view-access well located 60 feet from WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.56	Rating **	M	Issue No.	930 (cont)
LM End	9.56	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477438 °	39.477438 °
				-121.735200 °	-121.735200 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46233 DS_ID:16838 EP_NO: N/A FS_HLM: 9.664 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Path to access the WS flap gate was getting overgrown with vegetation but other than that everything with the crossing looked in good condition. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0080 for limited visibility of LS slide gate and WS flap gate. 7/9/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: Crossing is part of the Richvale Irrigation District siphon structure. 36 inch CM pipe that drains into Cherokee Canal at about 11.2 feet below the crown. (USACE-1962) Slide gate is located on landward side. Flap gate is located on waterward side. Crossing angles to the southwest to a flap gate & headwall located about 60 feet from waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.66). FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_5121.jpg



View of crossing looking from channel towards WS levee.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.57	Rating **	M	Issue No.	931
LM End	9.57	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477335 °	39.477335 °
				-121.735340 °	-121.735340 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46234 DS_ID:16839 EP_NO: N/A FS_HLM: 9.675 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 WS flapgate is silted over and unable to open. Needs to be dug out.Limited inspection on WS and LS slopes due to dense vegetation. Need photos of WS and LS slopes during next inspection with cleared slopes.7/9/2013 Same as last inspection.12/4/2013 Slopes were cleared of vegetation and are in good condition.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30 inch corrugated metal pipe with flapgate on the waterward side located approximately 11.5 feet below crown. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 9.68). FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5122.jpg



View of crossing from LS. Dense vegetation along LS slope limited visual inspection. (LS Photo 1 of 2)

LM Start	9.57	Rating **	M	Issue No.	931 (cont)
LM End	9.57	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_5123.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 2 of 2)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.57	Rating **	M	Issue No.	931 (cont)
LM End	9.57	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.477335 °	39.477335 °
				-121.735340 °	-121.735340 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46234 DS_ID:16839 EP_NO: N/A FS_HLM: 9.675 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5124.jpg



WS view of crossing. Dense vegetation along WS slope limited visual inspection. (WS Photo 1 of 2)

LM Start	9.66	Rating **	M	Issue No.	932
LM End	9.66	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46236 DS_ID:18912 EP_NO: N/A FS_HLM: 9.764 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing is in good condition.Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.7/9/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: Buried fiber optic line through the levee at depth unknown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601. (Qwest Communication) FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5125.jpg



Marker for buried fiber optic cable on LS with contact information.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.66	Rating **	M	Issue No.	932 (cont)
LM End	9.66	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476260 °	39.476260 °
				-121.736230 °	-121.736230 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46236 DS_ID:18912 EP_NO: N/A FS_HLM: 9.764 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing is in good condition.Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this encroachment. Will need to coordinate with LMA Superintendent and DWR-Inspector, photo includes utility contact information.7/9/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: Buried fiber optic line through the levee at depth unknown. Owner of line is Qwest Communications 1-800 At Fiber Sign ID Number 16601. (Qwest Communication) FS Date: 07/16/2015					

LM Start	9.66	Rating **	M	Issue No.	932 (cont)
LM End	9.66	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_5126.jpg



Marker for buried fiber optic cable on WS.

Photo 3 of 3 : UCIP_FA_2015_5127.jpg



Overview of levee crown at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.67	Rating **	U	Issue No.	933
LM End	9.67	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46237					
DS_ID:18913					
EP_NO: N/A					
FS_HLM: 9.776					
Repair Type: Urgent					
Crossing Status: Indicator Found					

LM Start	9.67	Rating **	U	Issue No.	933 (cont)
LM End	9.67	Issue Type +	En	Location *	CR

Photo 1 of 3 : UCIP_FA_2015_5128.jpg



View of LS slope and marker.

Photo 2 of 3 : UCIP_FA_2015_5129.jpg



WS marker with utility contact information.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.67	Rating **	U	Issue No.	933 (cont)
LM End	9.67	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.476140 °	39.476140 °
				-121.736390 °	-121.736390 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46237					
DS_ID:18913					
EP_NO: N/A					
FS_HLM: 9.776					
Repair Type: Urgent					
Crossing Status: Indicator Found					



Overview of levee crown at crossing.

LM Start	9.68	Rating **	M	Issue No.	934
LM End	9.68	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.475960 °	39.475960 °
				-121.736540 °	-121.736540 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46238 DS_ID:18914 EP_NO: N/A FS_HLM: 9.791 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing appears to be in good condition. It is still unknown whether this crossing was authorized or unauthorized.Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.7/9/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: Underground cable through the levee at depth unknown. Owner of encroachment is Pacific Telephone. FS Date: 07/16/2015					



Underground cable marker with contact information.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.68	Rating **	M	Issue No.	934 (cont)	
LM End	9.68	Issue Type +	En	Location *	CR	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.475960 °	39.475960 °	
				-121.736540 °	-121.736540 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46238						
DS_ID:18914						
EP_NO: N/A						
FS_HLM: 9.791						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: 6/30/2015 Crossing appears to be in good condition. It is still unknown whether this crossing was authorized or unauthorized.Unable to determine if crossing is an authorized or unauthorized encroachment. Unable to find permit number for this crossing. Will need to coordinate with Pacific Telephone to determine if permit exist for this crossing.7/9/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.						
FIELD_STRUCT_DESC: Underground cable through the levee at depth unknown. Owner of encroachment is Pacific Telephone.						
FS Date: 07/16/2015						

LM Start	9.68	Rating **	M	Issue No.	934 (cont)
LM End	9.68	Issue Type +	En	Location *	CR

Photo 2 of 3 : UCIP_FA_2015_3739.jpg



Overview of levee crown at crossing.

Photo 3 of 3 : UCIP_FA_2015_3740.jpg



Marker located on LS.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	9.88	Rating **	M	Issue No.	935
LM End	9.88	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.473410 °	39.473410 °
				-121.738190 °	-121.738190 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46239					
DS_ID:17731					
EP_NO: 16994					
FS_HLM: 9.99					
Repair Type: Non-Urgent					
Crossing Status: Not Found					

No Photos

LM Start	10.03	Rating **	M	Issue No.	13
LM End	10.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.471517 °	39.465113 °
				-121.739433 °	-121.743592 °
DWR ID	DWR_MA0013_02_s_2012_13				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_13_20150910_00006.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	10.55	Rating **	M	Issue No.	936
LM End	10.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464710 °	39.464710 °
				-121.743810 °	-121.743810 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46240 DS_ID:16406 EP_NO: 1238 FS_HLM: 10.67 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing appears in good condition.					
Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 8-inch gas pipe through the levee at unknown elevation. (Permit No. 1238-1947) Utility marker visible at the upstream face of highway bridge. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.67).					
FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5315.jpg



Downstream utility marker is located across highway.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	10.55	Rating **	M	Issue No.	936 (cont)
LM End	10.55	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.464710 °	39.464710 °
				-121.743810 °	-121.743810 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46240 DS_ID:16406 EP_NO: 1238 FS_HLM: 10.67 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing appears in good condition.					
Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 8-inch gas pipe through the levee at unknown elevation. (Permit No. 1238-1947) Utility marker visible at the upstream face of highway bridge. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.67).					
FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5316.jpg



Utility marker is located near the upstream face of the highway bridge.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	10.55	Rating **	M	Issue No.	936 (cont)	
LM End	10.55	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.464710 °	39.464710 °	
				-121.743810 °	-121.743810 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46240 DS_ID:16406 EP_NO: 1238 FS_HLM: 10.67 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 6/30/2015 Crossing appears in good condition. Permit was approved for 6-5/8 inch diameter not 8 inch. The permit granted permission to construct pipe to cross Cherokee Canal, Butte Creek, Clear Creek, & Ash Creek. The O&M manual list an 8 inch steel gas line at HLM 10.67, unable to determine if the gas line is the same crossing. Will need to contact applicant to obtain records.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection. inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 8-inch gas pipe through the levee at unknown elevation. (Permit No. 1238-1947) Utility marker visible at the upstream face of highway bridge. Buried utility crosses bridge and crosses left bank of Cherokee Canal downstream of highway bridge. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 10.67). FS Date: 07/16/2015						

Photo 3 of 3 : UCIP_FA_2015_5317.jpg



Utility is angled. Alignment crosses highway.

LM Start	10.59	Rating **	M	Issue No.	18
LM End	11.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.464305 °	39.450333 °
				-121.744172 °	-121.753157 °
DWR ID	DWR_MA0013_02_s_2012_18				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_18_20150910_00007.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	10.61	Rating **	A	Issue No.	53
LM End	10.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.463958 °	39.463958
				-121.744365 °	-121.744365
DWR ID	DWR_MA0013_02_f_2015_53				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard burned and dragged both slopes.					

Photo 1 of 1 : FA_2015_MA0013_301_53_20151109_00023.jpg



View of no vegetation on both slopes.

LM Start	12.88	Rating **	M	Issue No.	937
LM End	12.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.434779 °	39.434779 °
				-121.763940 °	-121.763940 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46242 DS_ID:16385 EP_NO: N/A FS_HLM: 13.03 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS.7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Slide gate in ditch on the landward side. Pipe under channel is a 24-inch Delleher siphon (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.03). FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5318.jpg



View of the inside of the WS stand pipe. No obstructions blocking slide gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	12.88	Rating **	M	Issue No.	937 (cont)
LM End	12.88	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.434779 °	39.434779 °
				-121.763940 °	-121.763940 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46242					
DS_ID:16385					
EP_NO: N/A					
FS_HLM: 13.03					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection.					
Vegetation needs to be cleared back. LS pipe end was fully submerged under water.LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS.7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Slide gate in ditch on the landward side. Pipe under channel is a 24-inch Delleher siphon (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.03).					
FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5319.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	12.88	Rating **	M	Issue No.	937 (cont)	
LM End	12.88	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.434779 °	39.434779 °	
				-121.763940 °	-121.763940 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46242						
DS_ID:16385						
EP_NO: N/A						
FS_HLM: 13.03						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 6/30/2015 WS heavily vegetated passed the toe-road and could not make it to the WS pipe end for inspection. Vegetation needs to be cleared back. LS pipe end was fully submerged under water.LS pipe & slide gate sedimented in. Limited inspection WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13F_2011_p_0147 for limited visibility of LS and WS.7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall is now visible but mostly underwater so unable to do full inspection. WS is still vegetated.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.						
FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Slide gate in ditch on the landward side. Pipe under channel is a 24-inch Delleher siphon (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 13.03).						
FS Date: 07/16/2015						

Photo 3 of 3 : UCIP_FA_2015_5320.jpg



Stand pipe with screw gate WS

LM Start	13.40	Rating **	M	Issue No.	19
LM End	16.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.428192 °	39.406240 °
				-121.768443 °	-121.794863 °
DWR ID	DWR_MA0013_02_s_2012_19				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_19_20150910_00008.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.44	Rating **	M	Issue No.	938
LM End	15.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46243 DS_ID:16376 EP_NO: N/A FS_HLM: 15.618 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Still unable to locate the LS pipe end. Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by vegetation. 7/8/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall. 12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.62). FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5321.jpg



Overview of crossing looking downstream at the left bank of Cherokee Canal.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.44	Rating **	M	Issue No.	938 (cont)
LM End	15.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46243 DS_ID:16376 EP_NO: N/A FS_HLM: 15.618 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Still unable to locate the LS pipe end. Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by vegetation. 7/8/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall. 12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.62). FS Date: 07/16/2015					



View of WS headwall and flap gate.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.44	Rating **	M	Issue No.	938 (cont)
LM End	15.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.419209 °	39.419209 °
				-121.773680 °	-121.773680 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46243 DS_ID:16376 EP_NO: N/A FS_HLM: 15.618 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Still unable to locate the LS pipe end. Could not find LS end of pipe. Limited inspection on WS and LS slopes and toe due to dense vegetation. Need photos of cleared WS and LS slopes, and LS headwall during next inspection. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0011 for WS gate blocked by vegetation. 7/8/2013 WS slope has been cleared of vegetation and is in good condition. LS slope also cleared of vegetation but still very dense on LS toe and unable to locate LS headwall. 12/4/2013 Same as last inspection. WS flapgate was bolted shut to keep LS ricefield flooded. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 10.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.62). FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_5323.jpg



Dense vegetation covering the majority of the WS. WS headwall difficult to see through dense vegetation.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.68	Rating **	M	Issue No.	939
LM End	15.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.417043 °	39.417043 °
				-121.777240 °	-121.777240 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_5324.jpg



View of WS headwall.

Action/Comments					
Inspector Comments: FS_ID:46245 DS_ID:16382 EP_NO: N/A FS_HLM: 15.864 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.87). FS Date: 07/16/2015					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.68	Rating **	M	Issue No.	939 (cont)	
LM End	15.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.417043 °	39.417043 °	
				-121.777240 °	-121.777240 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46245 DS_ID:16382 EP_NO: N/A FS_HLM: 15.864 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.87). FS Date: 07/16/2015						

Photo 2 of 3 : UCIP_FA_2015_5325.jpg



View of WS slope. Limited inspection due to the dense vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	15.68	Rating **	M	Issue No.	939 (cont)	
LM End	15.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.417043 °	39.417043 °	
				-121.777240 °	-121.777240 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46245 DS_ID:16382 EP_NO: N/A FS_HLM: 15.864 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 LS headwall stil buried somewhere. WS looked to be in good condition.LS headwall buried. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. Need to determine the fate of LS headwall. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0022 -- unknown issue.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 9.0 feet below the crown. Flap gate on waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 15.87). FS Date: 07/16/2015						

Photo 3 of 3 : UCIP_FA_2015_5409.jpg



Overview of crossing looking downstream of the left bank of Cherokee

LM Start	15.97	Rating **	M	Issue No.	61
LM End	15.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.414448 °	39.414448 °
				-121.781532 °	-121.781532 °
DWR ID	DWR_MA0013_02_s_2015_61				
Action/Comments					
Tree or limb					
Inspector Comments: Remove the tree from the waterside slope and toe.					

Photo 1 of 1 : FA_2015_MA0013_301_61_20150910_00018.jpg



View of the tree along the waterside toe and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	16.07	Rating **	M	Issue No.	940
LM End	16.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46246

DS_ID:16377

EP_NO: N/A

FS_HLM: 16.252

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under separate permit. 7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtenances in good condition. 12/4/2013 Same as last inspection. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.

FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. Pipe discharges into distribution box on the waterside. Divers on dam in stream. Pump located on the waterward berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the landward field. Provision can be made to send water over streambed to irrigation overflow area (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in the O&M manual (HLM 16.26).

FS Date: 07/16/2015

Photo 1 of 3 : UCIP_FA_2015_5410.jpg



Overview of levee crown.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	16.07	Rating **	M	Issue No.	940 (cont)
LM End	16.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46246

DS_ID:16377

EP_NO: N/A

FS_HLM: 16.252

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under separate permit. 7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtenances in good condition. 12/4/2013 Same as last inspection. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.

FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. Pipe discharges into distribution box on the waterside. Divers on dam in stream. Pump located on the waterward berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the landward field. Provision can be made to send water over streambed to irrigation overflow area (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in the O&M manual (HLM 16.26).

FS Date: 07/16/2015

Photo 2 of 3 : UCIP_FA_2015_5411.jpg



WS view of crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	16.07	Rating **	M	Issue No.	940 (cont)
LM End	16.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.413595 °	39.413595 °
				-121.782890 °	-121.782890 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46246

DS_ID:16377

EP_NO: N/A

FS_HLM: 16.252

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Bee boxes stacked near the riser box on WS so could not get close enough to see if the leak issue had been fixed. Limited inspection on LS slope due to dense vegetation. Need photos of cleared LS slope and LS headwall. Cracks in riser box. New pump installed recently this work might be covered under separate permit. 7/8/2013 LS slope has been cleared of vegetation and is in good condition. LS headwall was underwater and unable to be inspected. All WS appurtenances in good condition. 12/4/2013 Same as last inspection. 5/28/2014 Water appears to be leaking out of the WS concrete riser box. Causing minor erosion under pipe near pump structure.

FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 11.7 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on the landward side. Pipe discharges into distribution box on the waterside. Divers on dam in stream. Pump located on the waterward berm, pumps water from diversion dam into distribution box. Water then flows back through the levee to the landward field. Provision can be made to send water over streambed to irrigation overflow area (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in the O&M manual (HLM 16.26).

FS Date: 07/16/2015

Photo 3 of 3 : UCIP_FA_2015_5412.jpg



Appurtenances on WS.

LM Start	16.52	Rating **	M	Issue No.	54
LM End	16.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.409548 °	39.409548 °
				-121.789668 °	-121.789668 °
DWR ID	DWR_MA0013_02_f_2014_54				

Action/Comments

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.
Inspector Comments: Repair the rodent holes along the water side slope.

Photo 1 of 1 : FA_2015_MA0013_301_54_20150910_00013.jpg



View of the rodent holes and bait station along the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	16.86	Rating **	M	Issue No.	941
LM End	16.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406410 °	39.406410 °
				-121.794600 °	-121.794600 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:46247 DS_ID:16841 EP_NO: N/A FS_HLM: 17.06 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: 6/30/2015 Unable to locate.Dense vegetation limited inspection will need to verify is an features are still present at this location during the next inspection.7/8/2013 Same as last inspection. Unable to locate.12/4/2013 Unable to locate.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 36 inch corrugated metal pipe through the levee at approximately 14.5 feet below crown. There is a flapgate located on the waterward side. (USACE-1962) This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 17.06). FS Date: 07/16/2015					

LM Start	17.05	Rating **	M	Issue No.	20
LM End	18.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				° 39.389187 °
					° -121.821233 °

Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_20_20150910_00009.jpg



View of the agricultural ditch along the toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	18.16	Rating **	M	Issue No.	942
LM End	18.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.394406 °	39.394406 °
				-121.813180 °	-121.813180 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46249 DS_ID:16379 EP_NO: N/A FS_HLM: 18.369 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Vegetation still present on WS. LS side was underwater during inspection. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. 7/8/2013 LS slope cleared of vegetation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.37). FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5413.jpg



View of WS slope and berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
N/A : Not Applicable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	18.16	Rating **	M	Issue No.	942 (cont)
LM End	18.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.394406 °	39.394406 °
				-121.813180 °	-121.813180 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46249
 DS_ID:16379
 EP_NO: N/A
 FS_HLM: 18.369
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: 6/30/2015 Vegetation still present on WS. LS side was underwater during inspection. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. 7/8/2013 LS slope cleared of vegetation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.
 FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.37).
 FS Date: 07/16/2015

Photo 2 of 3 : UCIP_FA_2015_5414.jpg



Overview of crossing looking D/S at left bank of Cherokee Canal.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	18.16	Rating **	M	Issue No.	942 (cont)	
LM End	18.16	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.394406 °	39.394406 °	
				-121.813180 °	-121.813180 °	
DWR ID						
Action/Comments						
Inspector Comments: FS_ID:46249						
DS_ID:16379						
EP_NO: N/A						
FS_HLM: 18.369						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 6/30/2015 Vegetation still present on WS. LS side was underwater during inspection. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0134 for unknown culvert size on LS and no outlet visible on WS. 7/8/2013 LS slope cleared of vegetation and is in good condition. WS is still vegetated. LS pipe end under water and blocked off by plywood so unable to measure culvert size. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.						
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through the levee, 13.2 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 18.37).						
FS Date: 07/16/2015						

Photo 3 of 3 : UCIP_FA_2015_5415.jpg



View of flap gate located on WS.

LM Start	19.37	Rating **	M	Issue No.	21
LM End	19.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.383252 °	39.378192 °
				-121.830565 °	-121.838543 °
DWR ID	DWR_MA0013_02_s_2012_21				
Action/Comments					
Ditch					

Photo 1 of 1 : FA_2015_MA0013_301_21_20150910_00010.jpg



View of the agricultural ditch along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	19.92	Rating **	M	Issue No.	943
LM End	19.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378198 °	39.378198 °
				-121.838570 °	-121.838570 °
DWR ID					

Photo 1 of 3 : UCIP_FA_2015_3760.jpg



Action/Comments					
Inspector Comments: FS_ID:46252 DS_ID:16375 EP_NO: N/A FS_HLM: 20.148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Erosion still present behind the WS headwall. Everything thing else with the crossing appeared to be in good condition. Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. 7/8/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.15). FS Date: 07/16/2015					

Erosion behind WS headwall at the upstream edge of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	19.92	Rating **	M	Issue No.	943 (cont)
LM End	19.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378198 °	39.378198 °
				-121.838570 °	-121.838570 °
DWR ID					

Photo 2 of 3 : UCIP_FA_2015_3761.jpg



Action/Comments					
Inspector Comments: FS_ID:46252 DS_ID:16375 EP_NO: N/A FS_HLM: 20.148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Erosion still present behind the WS headwall. Everything else with the crossing appeared to be in good condition. Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection. 7/8/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.15). FS Date: 07/16/2015					

Erosion behind WS headwall looking at the downstream edge of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	19.92	Rating **	M	Issue No.	943 (cont)
LM End	19.92	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.378198 °	39.378198 °
				-121.838570 °	-121.838570 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46252 DS_ID:16375 EP_NO: N/A FS_HLM: 20.148 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Erosioon still present behind the WS headwall. Everyhting thing else with the crossing appeared to be in good condition.Erosion present behind WS headwall. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS and LS slopes during next inspection.7/8/2013 Erosion problem same as last inspection. WS and LS slopes have been cleared of vegetation and are in good shape.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 13.1 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 20.15). FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_3762.jpg



Flap gate located on the WS.

LM Start	20.45	Rating **	M	Issue No.	51
LM End	20.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.372912 °	39.372912 °
				-121.845500 °	-121.845500 °
DWR ID	DWR_MA0013_02_s_2015_51				
Action/Comments					
Tree or limb					
Inspector Comments: Remove the tree limbs from the landside toe.					

Photo 1 of 1 : FA_2015_MA0013_301_51_20150910_00011.jpg



View of the tree limbs along the landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.48	Rating **	M	Issue No.	6
LM End	20.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.372724 °	39.370732 °
				-121.846022 °	-121.850282 °
DWR ID	DWR_MA0013_02_s_2013_6				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim the trees 5 feet to allow visibility.					

Photo 1 of 1 : FA_2015_MA0013_301_6_20150910_00002.jpg



Trim the trees 5 feet to allow visibility along the landside slope.

LM Start	20.65	Rating **	M	Issue No.	52
LM End	20.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.371433 °	39.371433 °
				-121.848753 °	-121.848753 °
DWR ID	DWR_MA0013_02_s_2014_52				
Action/Comments					
Tree or limb					
Inspector Comments: Remove the tree limbs from the landside slope and toe.					

Photo 1 of 1 : FA_2015_MA0013_301_52_20150910_00012.jpg



View of the trees limbs along the landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	944
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370676 °	39.370676 °
				-121.850490 °	-121.850490 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46253					
DS_ID:16383					
EP_NO: N/A					
FS_HLM: 21.001					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 1 of 3: 16-inch steel pipes encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00).					
FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_3763.jpg



Corrugated metal pipe risers with slide gates located on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	944 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370676 °	39.370676 °
				-121.850490 °	-121.850490 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46253

DS_ID:16383

EP_NO: N/A

FS_HLM: 21.001

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.

FIELD_STRUCT_DESC: 1 of 3: 16-inch steel pipes encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00).

FS Date: 07/16/2015

Photo 2 of 3 : UCIP_FA_2015_3764.jpg



Corrugated metal pipe riser for pipe 1 of 3. Slide gate is missing handle.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	944 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370676 °	39.370676 °
				-121.850490 °	-121.850490 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46253 DS_ID:16383 EP_NO: N/A FS_HLM: 21.001 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Buried section of pipe could be in the same condition. Crossing needs to be repaired; will need to coordinate with applicant. WS slide gate handle missing. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 3: 16-inch steel pipes encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00). FS Date: 07/16/2015					

Photo 3 of 3 : UCIP_FA_2015_3765.jpg



Sink hole observed behind WS headwall at the downstream edge of headwall. (Sink hole picture 1 of 2)

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	945
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46255 DS_ID:17185 EP_NO: N/A FS_HLM: 21.002 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 3 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00). FS Date: 07/16/2015					

Photo 1 of 3 : UCIP_FA_2015_5572.jpg



View of corrugated metal risers located on WS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	945 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46255					
DS_ID:17185					
EP_NO: N/A					
FS_HLM: 21.002					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 3 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00).					
FS Date: 07/16/2015					



View of Pipe 3 of 3 from WS headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	945 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46255 DS_ID:17185 EP_NO: N/A FS_HLM: 21.002 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Cossing has not been repaired yet. pipe ends still shwoing heavy signs of rust and corrosion.Sink hole present on WS. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Need to coordinate with owner.7/8/2013 Same as last inspection.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 3 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00). FS Date: 07/16/2015					



View of corrugated metal pipe for pipe 3 of 3.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	946
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46254					
DS_ID:17014					
EP_NO: N/A					
FS_HLM: 21.002					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 2 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00).					
FS Date: 07/16/2015					



View of pipe 2. Pipe 2 diverts flow to pipe 1.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	946 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46254 DS_ID:17014 EP_NO: N/A FS_HLM: 21.002 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00). FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5570.jpg



WS view of corrugated metal pipe risers .

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	20.76	Rating **	U	Issue No.	946 (cont)
LM End	20.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.370679 °	39.370679 °
				-121.850500 °	-121.850500 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46254 DS_ID:17014 EP_NO: N/A FS_HLM: 21.002 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Crossing has not been repaired yet. pipe ends still showing heavy signs of rust and corrosion. LS pipe collars severely damaged--section missing at flapgate. Crossing needs repair. Will need to coordinate with owner. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 3: 16-inch steel pipe encased in reinforced concrete through the levee, 9.7 feet below the crown. Concrete "U" headwall on both ends. Slide gates on corrugated metal pipe risers on the waterward slope. Pump structure on the waterward end (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.00). FS Date: 07/16/2015					



Riser for pipe 2 of 3.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	21.35	Rating **	U	Issue No.	947
LM End	21.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.366155 °	39.366155 °
				-121.859880 °	-121.859880 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46261

DS_ID:16384

EP_NO: N/A

FS_HLM: 21.6

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present.7/8/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe crosses the channel (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.60). Corroded section of exisiting pipe, 9-feet 8-inches of an 18-inch CMP section, was replaced under Permit 7231 prior to 1974.

FS Date: 07/16/2015

Photo 1 of 3 : UCIP_FA_2015_5575.jpg



Overview of crossing looking downstream.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	21.35	Rating **	U	Issue No.	947 (cont)
LM End	21.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.366155 °	39.366155 °
				-121.859880 °	-121.859880 °
DWR ID					

Action/Comments					
Inspector Comments: FS_ID:46261 DS_ID:16384 EP_NO: N/A FS_HLM: 21.6 Repair Type: Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present.7/8/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe crosses the channel (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.60). Corroded section of exisiting pipe, 9-feet 8-inches of an 18-inch CMP section, was replaced under Permit 7231 prior to 1974. FS Date: 07/16/2015					

Photo 2 of 3 : UCIP_FA_2015_5576.jpg



WS-view of internal pipe with severe corrosion-holes present along pipe wall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	21.35	Rating **	U	Issue No.	947 (cont)
LM End	21.35	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.366155 °	39.366155 °
				-121.859880 °	-121.859880 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46261

DS_ID:16384

EP_NO: N/A

FS_HLM: 21.6

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: 6/30/2015 Pipe is currently undergoing repairs. Not sure what all is planed to be fixed but will update the photos and inspection report with new details when its completed.Needs repair. Internal piping, severe corrosion. Debris present--rusted pipe stockpiled on LS slope. Limited inspection on WS and LS slopes due to dense vegetation. Need photos of cleared WS & LS slopes. This crossing was listed in the USACE Periodic Inspection report as Corp's inspect ID# USACE_CESPK_M13E_2011_p_0234 for no WS gate but sluice gate present.7/8/2013 Pipe appears to have been repaired. Need to talk to inspections and supervisor to find out more deatils on repair.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection.

FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through the levee, 8.2 feet below the crown. Crossing penetrates levee at angle. Slide gate in corrugated metal pipe riser on the waterward slope. Pipe crosses the channel (USACE-1960). This entry matches the Drainage or Irrigation Structure referenced in O&M manual (HLM 21.60). Corroded section of exisiting pipe, 9-feet 8-inches of an 18-inch CMP section, was replaced under Permit 7231 prior to 1974.

FS Date: 07/16/2015

Photo 3 of 3 : UCIP_FA_2015_5577.jpg



View of WS daylight. Hole present at pipe daylight.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	21.86	Rating **	M	Issue No.	948
LM End	21.86	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362103 °	39.362103 °
				-121.867820 °	-121.867820 °
DWR ID					

Action/Comments

Inspector Comments: FS_ID:46264
DS_ID:16374
EP_NO: N/A
FS_HLM: 22.114
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: 6/30/2015 same as last inspection. Unauthorized Encroachment. This crossing is listed multiple times in the USACE Periodic Inspection report as USACE_CESPK_M13E_2011_p_0307, 0315, 0317, 0318 for slope failure on LS hinge. DWR-Flood Maintenance Office records shows that CVFPB has requested AT&T to remove conduit in June 2, 2009 letter. LMA working with CVFPB to resolve. 7/8/2013 Same as last inspection. 12/4/2013 Same as last inspection. 5/28/2014 Same as last inspection.
FIELD_STRUCT_DESC: Illegal encroachment. Underground telephone cable through the levee. Depth unknown. (AT&T) START latitude 39.36210336, longitude -121.8678207 END latitude 39.35458541, longitude -121.8823409. Line extends from Gridley Colusa Highway to the south end of project levee along LS shoulder & levee crown hinge point. Levee sloughs along cable trench after heavy rains.
FS Date: 07/16/2015

Photo 1 of 1 : UCIP_FA_2015_5492.jpg



View of utility line located on LS toe.

LM Start	22.13	Rating **	M	Issue No.	4
LM End	22.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.359982 °	39.359982 °
				-121.871958 °	-121.871958 °
DWR ID	DWR_MA0013_02_s_2012_4				

Action/Comments

Landscaping

Photo 1 of 1 : FA_2015_MA0013_301_4_20150910_00001.jpg



View of landscaping along the toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	22.15	Rating **	M	Issue No.	949
LM End	22.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359827 °	39.359827 °
				-121.872300 °	-121.872300 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46267 DS_ID:16391 EP_NO: N/A FS_HLM: 22.4 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 6/30/2015 Still unable to locate the LS headwall and pipe end.Unable to locate LS headwall. Need photo of LS headwall during next inspection.7/8/2013 Same as last inspection. Unable to locate LS headwall.12/4/2013 Same as last inspection.5/28/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal pipe through the levee, 15.3 feet below the crown. Flap gate on the waterward end. Concrete "U" headwalls on both ends. This pipe runs on an angle through the levee, then underground along the landward slope to levee mile 22.39 where it enters a ditch on the landward side (USACE-1960). FS Date: 07/16/2015					

LM Start	22.15	Rating **	M	Issue No.	949 (cont)
LM End	22.15	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_FA_2015_5652.jpg



View of WS slope looking from WS headwall to levee crown.

Photo 2 of 3 : UCIP_FA_2015_5653.jpg



View of flap gate on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Sutter Maintenance Yard Maintenance Area 0013

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cherokee Canal	Left	22.84	11/06/2015 11/06/2015	Bob Duffey

LM Start	22.15	Rating **	M	Issue No.	949 (cont)
LM End	22.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.359827 °	39.359827 °
				-121.872300 °	-121.872300 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:46267 DS_ID:16391 EP_NO: N/A FS_HLM: 22.4 Repair Type: Non-Urgent Crossing Status: Found					

Photo 3 of 3 : UCIP_FA_2015_5654.jpg



View of WS slope looking from WS headwall to levee crown.

LM Start	22.16	Rating **	M	Issue No.	8
LM End	22.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.359707 °	39.359707 °
				-121.872555 °	-121.872555 °
DWR ID	DWR_MA0013_02_s_2012_8				
Action/Comments					
Prunings					

Photo 1 of 1 : FA_2015_MA0013_301_8_20150910_00004.jpg



View of the debris & prunings.

LM Start	22.58	Rating **	M	Issue No.	7
LM End	22.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.356498 °	39.356303 °
				-121.879030 °	-121.879417 °
DWR ID	DWR_MA0013_02_s_2012_7				
Action/Comments					
Note and monitor erosion site.					

Photo 1 of 1 : FA_2015_MA0013_301_7_20150910_00003.jpg



View of the erosion along the canal.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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